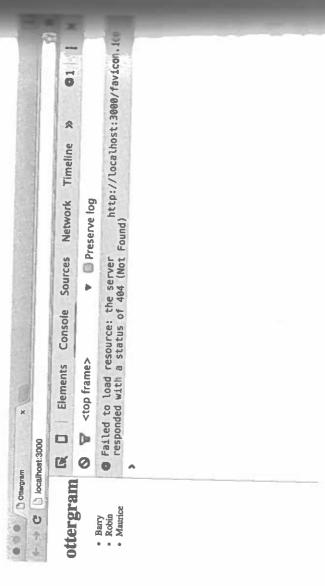
That is the favicon, ico image file. Many sites have one, and browsers request one by default. He Ottergram does not have one, you may see an error like the one in Figure 2.20 in the Dev Pools.

Figure 2.20 Error about missing favicon.ico



Do not worry about this error if it appears. It will not affect your project. However, you can casily will a favicon.ico image – and that is your first challenge.

Silver Challenge: Adding a favicon.ico

You have decided that you like otters more than you like seeing the favicon.ico error message. You are going to create a favicon.ico file using one of the otter images.

Do a web search for "favicon generator" and you should see a list of websites that will do a file conversion for you. Most will let you upload an image and then provide you with a favicon, ico version.

Choose one and upload any one of the otter images.

Save the resulting favicon, ico file in the same folder as your index, html file. Finally, reload your browser. Your browser tab will look something like Figure 2.21.

Figure 2.21 Ottergram with a favicon.ico



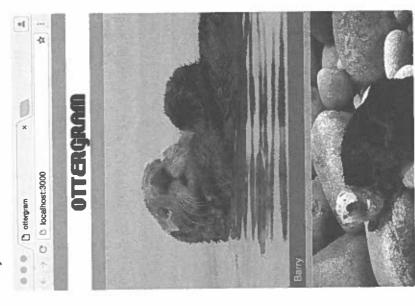
M

Styles

the chapter, you will design a static version of Ottergram. In the chapters that follow, you will make the chapters that follow, you will make the chapters that follow, you will make the chapters that follow, you will make

why was reach the end of this chapter, your website will look like Figure 3.1.

Wre 3.1 Ottergram: stylish



This chapter introduces a number of concepts and examples. Do not worry if you do not feel that you have mastered all of them when you get to the end. You will be encountering them again and again as you progress through this book, and your work in this chapter will provide a solid foundation on which you will build true understanding.

Of course, we can only introduce you to a finy fraction of all the styles that are available in CSS, You will want to consult the MDN for information about the full set of properties and their values,

Front-end developers have to choose between two approaches to styling a website: start with the overall layout and work down to the smallest details, or start with the smallest details and work up to the overall layout.

Not only does working from detail to big picture produce cleaner, more reusable code, it also has a cool name: *atomic styling*. You will use this approach as you style the otter thumbnails first, then the thumbnail list layout. In the next chapter, you will work on the layout of the site as a whole.

Creating a Styling Baseline

You are going to begin by adding the normalize.css file to your project. normalize.css helps the CSS you write display consistently across browsers. All browsers come with a set of default styles, but the defaults are different from browser to browser. normalize.css gives you a good starting point for developing your own custom CSS for a website or web app.

normalize.css is freely available online. You do not need to download it. To add it to Ottergram, you only need to link to it in index.html.

To ensure that you are using the most current version of normalize.css, you are going to get its address from a content sharing site. Go to cdnjs.com/libraries/normalize and find the version of the file ending with .min.css. (This version is a smaller download than the others, with the extra whitespace stripped out.) Click the Copy button to copy its address (Figure 3.2).

Figure 3.2 Getting a link to normalize.css from cdnjs.com

	Browse Libraries About Issues Uptime Network Chat Requestalib	n modern				Copy		
C romates - copia.com . T · x C C confiscom . T · x C C confiscom/libraries/normalize/#	cdnjs Browse Libraries ,	http://necolas.github.com/normalize.css/ code.as consistents consist	Gross browser	mi II	https://cdnjs.cloudflare.com/ajax/libs/normalize/3.0.3/normalize.css	https://cdnjs.cloudfare.com/ajav/lbs/normalize/3.0.3/normalize.min.css	Related Tutorials	Do you think w3schools sucks? Do you think you could do a way better job? Now you can! Submit, your own community driven tutonials.

The current version at the time of this writing is 3.0.3, but the version you use may be more recent.

Open your Ottergram folder in Atom, then open index.html. Add a new link> tag and paste in the mildress. (In the code below, the link> has been broken into two lines to fit on the page. You can deave yours on a single line.)

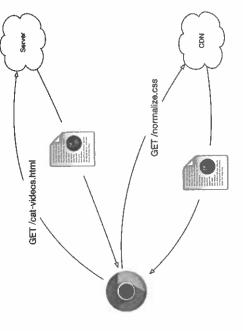
| doctype html>
| html>
| chead>
| chead>
| ctitle>ottergram</title>
| ctitle>
| ctitle>ottergram</title>
| ctitle>ottergram</title>
| ctitle>
| ctitle>ottergram</title>
| ctitle>ottergram</title>
| ctitle>
| ctitle>ottergram</title>
| ctitle>
| ctitle>
| ctitle>ottergram</title>
| ctitle>
| ctitl

Make sure that you add the link> tag for normalize.css before the link> tag for styles.css. The hrowser needs to read the styles found in normalize.css before it reads yours.

And, just like that, your project can take advantage of this useful tool. No other setup is required.

You may be wondering why you are linking to an address on a completely different server. In fact, it is not unusual for an HTML file to specify resources located on different servers (Figure 3.3).

Figure 3.3 Requesting resources from different servers



In this case, normalize.css is hosted on cdnjs.com, a public server that is part of a content delivery network, or CDN. CDNs have servers all around the world, each with copies of the same files. When users request a file, they receive it from a server nearby, cutting down on the load time for that file.cdnjs.com hosts many versions of popular front-end libraries and frameworks.

Chapter 3 St

Preparing the HTML for Styling

In the last chapter, you created a stylesheet called styles.css, and in this chapter you will add a number of CSS siving rules to it. But before you get started adding styles, you need to set up your HTML with targets for your styling rules to refer to.

You are going to add class attributes identifying the span elements with the otters' names as "thumbnail titles." class attributes are a way to identify a group of HTML elements, usually for styling. Your "thumbnail title" class will allow you to easily style all the names at once.

In index.html, add the class name thumbnail-title as an attribute of the spans inside the li elements, as shown:

```
<img src="img/otter1.jpg" alt="Maurice the Otter">
<span>Maurice</span>
<span class="thumbnail-title">Maurice</span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <img src="img/otter5.jpg" alt="Barbara the Otter">
                                                                                                                                                                                                                                                                                                                                                                                                                              <img src="img/otter4.jpg" alt="Lesley the Otter">
                                                              <img src="img/otter1.jpg" alt="Barry the Otter">
<span=Barry</span>
<span class="thumbnail-title">Barry</span>
                                                                                                                                                                                   <img src="img/otter2.jpg" alt="Robin the Otter">
<spen>Robin</spen>
<span class="thumbnail-title">Robin</span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <span>Barbara</span>
<span class="thumbnail-title">Barbara</span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                  <span>Lesley</span>
<span class="thumbnail-title">Lesley</span>
                                                                                                                                                                  <a href="#">
                                                <a href="#">
                                                                                                                                                                                                                                                                                                                                                                                                              <a href="#">
                                                                                                                                                                                                                                                                                         <a href="#">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <a href="#">
                                                                                                                 </a>
                                                                                                                                                                                                                                      </a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </a>

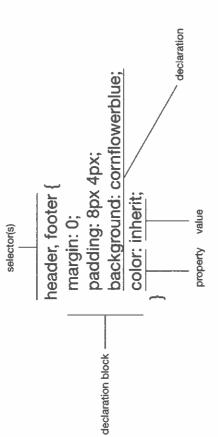
                                                                                                                                                                                                                                                                                                                                                                            رزار^
جزاهٔ
                                                                                                                                                                                                                                                                                                                                                              <6/>
```

In a moment, you will use this class name to style all the image titles.

Anatomy of a Style

When you create individual styles, you do so by writing styling rules, which consist of two main parts: selectors and declarations (Figure 3.4).

Figure 3.4 Anatomy of a styling rule



The first part of a styling rule is one or more selectors. Selectors describe the elements that the style should be applied to, like h1, span, or img. But selectors are not limited to tag names. You can write selectors that apply to a more targeted set of elements by increasing the selector's *specificity*.

For example, you can write selectors based on attributes — such as the thumbnail—title class attribute you just added to the tags. Selectors based on attributes are more specific than selectors based on element names.

In addition to making sure that styles are only applied to a limited set of elements (e.g., elements with the class name thumbnail—title versus all elements), specificity also determines the selector's relative priority. If a stylesheet contains multiple styles that could apply to the same element, the styles with a selector of higher specificity will be used instead styles whose selector has a lower specificity. You can read more about specificity in a For the More Curious section at the end of this chapter.

Throughout this chapter, you will be introduced to a number of different kinds of selectors that vary in their specificity. Though there are often many ways to target the same element for styling, understanding specificity is key to choosing the best selector to use so that your styles are maintainable.

The second part of a styling rule is the declaration block, wrapped in curly braces, which defines the styles to be applied. The individual declarations within the block each include a property name and a value for that property.

+1 III

In your first styling rule, you will use the class attribute you just added as a selector to apply styles around the otters' names.

Your First Styling Rule

To use a class as a selector in a styling rule, you prefix the class name with a dot (period), as in thumbnail-title. The first styles you are going to add will set the background and foreground colons for the .thumbnail-title class.

Open styles.css and add your styling rule:

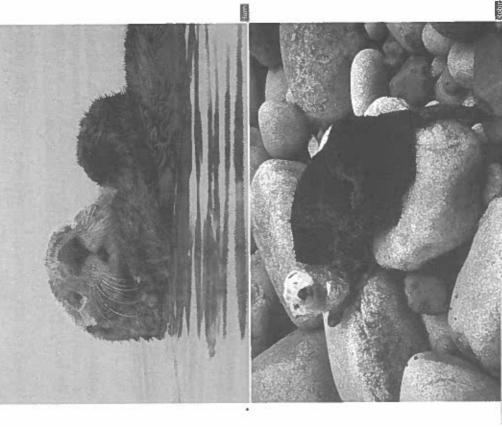
```
.thumbnail-title {
  background: rgb(96, 125, 139);
  color: rgb(202, 238, 255);
}
```

You will learn more about color later in this chapter. For now, just take a look at your changes. Save styles.css and make sure browser-sync is running. If you need to restart it, the command is:

This will open your web page in Chrome (Figure 3.5).

More 3.5 A slightly more colorful Ottergram





You can see that you have set the background for the thumbnail titles to a deep gray-blue and the font color to a lighter blue. Nice.

Continue styling the thumbnail titles: Return to styles, css and add to your existing styling rule for the .thumbnail-title class.as shown:

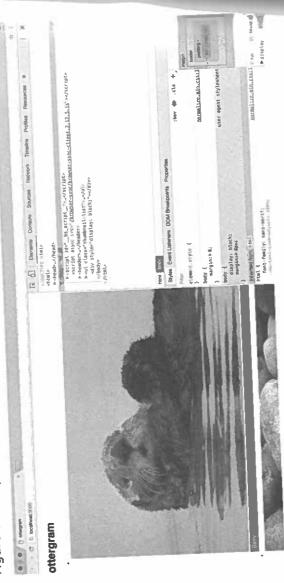
```
background: rgb(96, 125, 139);
color: rgb(202, 238, 255);
                                             padding: 4px 10px;
.thumbnail-title {
display: block;
                                   margin: 0
```

visual representation, the browser draws a rectangle to the page. The browser uses a scheme called the The three declarations you have added all affect an element's box. For every HTML tag that has a standard box model (or just "box model") to determine the dimensions of that rectangle.

The box model

To understand the box model, you are going to look at its representation in the DevTools. Save styles.css, switch to Chrome, and make sure the DevTools are open (Figure 3.6).

Figure 3.6 Exploring the box model



R button in the upper-left of the elements panel. This is the Inspect Element button. Now move your cursor over the word "ottergram" on the web page. As you hover over the word, the DevTools surrounds the heading with a blue- and peach-colored rectangle (Figure 3.7).

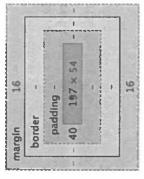
3.7 Hovering over the heading Figure



Click the word "ottergram" on the web page. Although you no longer see the multicolored overlay, the element is now selected and the DOM tree view in the elements panel will expand to show and highlight the corresponding <h1> tag.

element. You can see that the regions of the diagram have some of the same colors as the rectangle you The rectangular diagram in the lower-right of the elements panel represents the box model for the h1 saw overlaying the heading when you inspected it (Figure 3.8).

Figure 3.8 Viewing the box model for an element



The box model incorporates four aspects of the rectangle drawn for an element (which the DevTools renders in four different colors in the diagram).

the visual content – here, the text	transparent space around the content	a border, which can be made visible, around the content and padding	transparent space around the border
content (shown in blue)	padding (shown in green)	հավեr (shown in yellow)	margin (shown in peach)

of your browser window). There is padding of 40 pixels on the left side. The border is set at 0, and Note of a computer screen that can display a single color. In the case of the h1 element, the content area to numbers in Figure 3.8 are pixel values; a pixel is a unit corresponding to the smallest rectangular been allocated an area of 197 pixels by 54 pixels (your values may be different, depending on the IN a margin of 16 pixels above and below the element.

Illy. Because you have not specified values for the h1 element's box, the default styles have been In that margin value come from? Each browser provides a default stylesheet, called the user In wyleyheet, in case an HTML file does not specify one. Styles that you specify override the

you are ready to understand the styling declarations you added:

```
## 125, 139);
mr rgb(202, 238, 255);
                                           1101 4px 10px;
Unall-title {
             lays block;
```

The display: block declaration changes the box for all elements of the class .thumbnail-title so that they occupy the entire width allowed by their containing element. (Notice in Figure 3.6 that the background color for the titles now covers a wider area.) Other display values, such as the display: inline property you will see later, make an element's width fit to its content.

You also set the margin for the thumbnail titles to 0 and the padding to two different values: 4px and 10px (px is the abbreviation for "pixels"). This sets the padding to specific pixel values, overriding the default size set by the user agent stylesheet.

Padding, margin, and certain other styles can be written as *shorthand properties*, in which one value is applied to multiple properties. You are taking advantage of this here: When two values are provided for the padding, the first is applied to both vertical values (top and bottom) and the second is applied to both horizontal values (left and right). It is also possible to provide a single value to be applied to all four sides or to specify a separate value for each side.

To sum up, your new declarations say that the box for all elements of the .thumbnail-title class will fill the width of its container with no margin and with padding that is 4 pixels at the top and bottom and 10 pixels at the left and right sides.

Style Inheritance

Next, you are going to add styles to change the size and appearance of the text.

Add a new styling rule in styles.css to set the font size for the body element. To do this, you will use a different type of selector – an element selector – by simply using the element's name.

```
font-size: 10px;
}
.thumbnail-title {
    display: block;
    margin: 0;
    padding: 4px 10px;
    background: rgb(96, 125, 139);
    color: rgb(202, 238, 255);
}
```

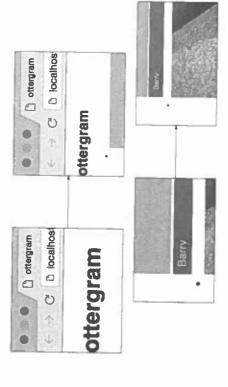
This styling rule sets the body element's font-size to 10px.

You will rarely use element selectors in your stylesheets, because you will not often want to apply the exact same styles to every occurrence of a particular tag. Also, element selectors limit your ability to reuse styles; using them means that you may end up retyping the same declarations throughout your stylesheets. This is not great for maintenance if you need to alter those styles.

But, in this case, targeting the body element is exactly the right amount of specificity. There can be only one <body> element, and you will not be reusing its styles.

Save styles.css and check out your web page in Chrome (Figure 3.9).

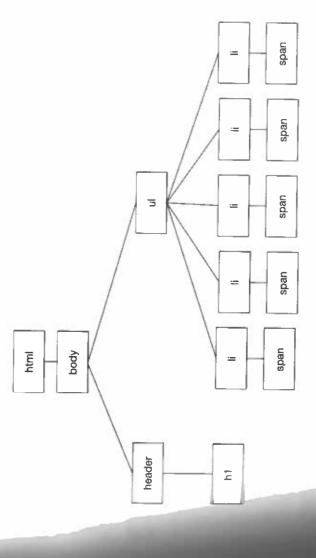
Figure 3.9 After setting the body font size



Your headline and thumbnail titles have gotten smaller. You may – or may not – have expected this. While the headline is directly within the body element where you declared the font–size property, the thumbnail titles are not. They are nested several levels deep. However, many styles, including font size, are applied to the elements specified by the styling rule as well as the descendants of those elements.

The structure of your document can be described using a tree diagram, as in Figure 3.10. Representing your elements as a tree is a good way to visualize the DOM.

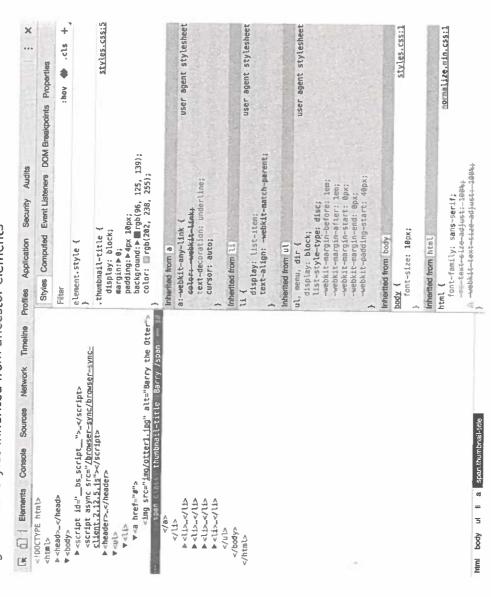
Figure 3.10 Simplified structure of Ottergram



International within another element is said to be its descendent. In this case, your spans are international to the body (as well as the ul and their respective 1.1), so they inherit the body's font—

In the DevTools' DOM tree view, locate and select one of the span elements. In the styles pane, notice the boxes labeled Inherited from a, Inherited from li, and Inherited from ul. These three areas, as indicated, show styles inherited at each level from the user agent stylesheet. Under Inherited from body, you can see that the font-size property has been inherited from the style set for the body element in styles.css (Figure 3.11).

Figure 3.11 Styles inherited from ancestor elements



What if a different font size were set at another level, such as the ul? Styles from the closer ancestor take priority, so a font size set in styles.css for the ul would override one set for the body and a font size set for the span element itself would override them both.

To see this, click on the ut element in the DOM tree view. This will allow you to try out styles on the fly. The styles you add here will be immediately reflected in the web page view, but will not be added to your actual project files.

Click anywhere in between the curly braces of the elements.style, and the DevTools will give you a

At the top of the styles pane in the elements panel, you will see a section labeled elements.style.

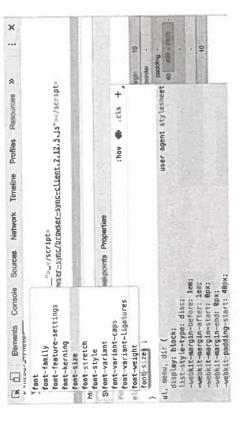
刚gure 3.12 Prompting for a style rule

Style Inheritance



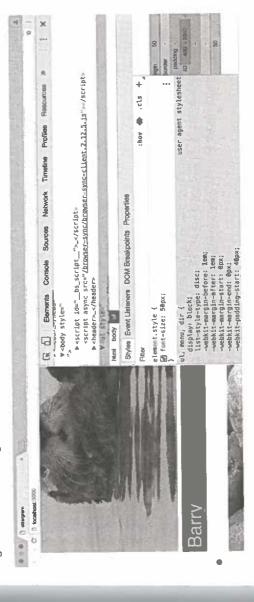
Start typing font-size, and the DevTools will suggest possible completions (Figure 3.13).

Figure 3.13 Autocompletion options in styles pane



Choose font-size, then press the Tab key. Enter a large value, such as 50px, and press Return. You may need to scroll the page, but you will see that the ul's font-size has overridden the body's Ofigure 3.14).

Figure 3.14 Giving the ul a font-size of 50px



prompt (Figure 3.12).

Not all style properties are inherited - border, for example, is not. To find out whether a property is inherited, refer to the property's MDN reference page.

Back in styles.css, update your declaration block for the .thumbnail-title class to override the body's font-size and use a larger font.

```
font-size: 10px;
body {
```

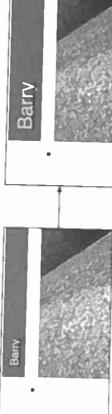
```
background: rgb(96, 125, 139);
color: rgb(202, 238, 255);
                                                         padding: 4px 10px;
.thumbnail-title {
  display: block;
  margin: 0;
```

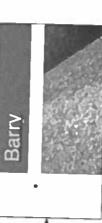
font-size: 18px;

For elements of the class . thumbnail-title, you changed the font size to 18 pixels.

Save styles.css and admire your thumbnail titles in Chrome (Figure 3.15).

15 Styled thumbnail titles Figure 3.





They look good, but the user agent stylesheet is adding underlines to the .thumbnail-title elements. This is because you wrapped them (along with the .thumbnail-image elements) with an anchor tag, making them inherit the underline style.

the anchor tags in a new styling rule in styles. css. What selector should you use for this need the underlines, so you are going to remove them by changing the text-decoration property for You do not rule?

If you are confident that you want to remove the underlines from the thumbnail titles as well as any other anchor elements in Ottergram, you can simply use an element selector:

declaration */ /* style a f

(The text between the /* */ indicators is a CSS comment. Code comments are ignored by the browser; they allow the developer to make notes in the code for future reference.)

If you think you might use anchors for another purpose (and will want to style them differently), you Juny pair the element selector with an attribute selector, like this:

generally do have href attributes, so that might not be targeted enough to match only the thumbnail lingues and titles. To make an attribute selector more precise, you can also specify the value of the This selector would match any anchor element with an href attribute. Of course, anchor elements attribute, like this:

```
n[href="#"]{
/* style declaration */
```

This selector would match only those anchor elements whose href attribute has a value of #.

By the way, you can also use attribute selectors, with or without values, on their own, such as:

```
/* style declaration */
```

anything other than the thumbnails and their titles. It is therefore safe to use an element selector, and you should do so because it is the most straightforward solution with the right amount of specificity. As it happens, Ottergram is a fairly simple project and you will not, in fact, be using anchor tags for

Add the new style declaration to styles.css:

```
text-decoration: none;
font-size: 10px;
                                                                                                                       .thumbnail-title {
```

Save your file and check your browser. The underlines are gone and your thumbnail titles are nicely styled (Figure 3.16).

Figure 3.16 After setting text-decoration to none

Barry

users have come to expect. You did it here because the thumbnails do not require the same visual cues. Note that you should not remove the underlines from links that are in normal text - text that is not an obvious heading, title, or caption. The underlining of linked text is an important visual indicator that Users will reasonably expect them to be clickable. In the rest of the chapter, you will use class selectors to style the thumbnail images, the unordered list of images, the list items (which include the thumbnail images and their titles), and, finally, the header, Go ahead and add class names to the h1, u1, li, and img elements in index.html so they are ready as you need them.

```
<
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <<u>img sree"img/otter5.jpg"-elt="Barbara-the Otter"></u>
<img class="thumbnail-image" src="img/otter5.jpg" alt="Barbara the Otter">
<span class="thumbnail-title">Barbara</span></span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <<u>ing -sre="ing/otter4.jpg" alt="Lesley the Otter"></u>
<ing class="thumbnail-image" src="img/otter4.jpg" alt="Lesley the Otter">
<span class="thumbnail-title">Lesley</span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <<u>img-src="img/otter1.jpg" alt="Barry-the Otter"></u>
<img class="thumbnail-image" src="img/otter1.jpg" alt="Barry the Otter">
<span class="thumbnail-title">Barry</span></span>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <<u>img sre="img/otter2.jpg" elte="Robin the Otter"></u>
<img class="thumbnail-image" src="img/otter2.jpg" alt="Robin the Otter">
<span class="thumbnail-title">Robin</span>
                                                                                                                                                                                              class="thumbnail-item">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   class="thumbnail-item">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            class="thumbnail-item">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           class="thumbnail-item">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     href="#">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       href="#">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    href="#">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      href="#">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </a>

</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         </a>
</a>

43>

44
61
61
62
63
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64
64

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </a>
</a>

4.3
4.1
5.1
6.1
6.3
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.4
6.5
6.4
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
<l>6.5
6.5
6.5
6.5
6.5
<li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 / 4/2
// 2/1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ 1/2
/ /
                                                                                                                                                     ٥
                                                                        </head>
```

lass names to these elements, you have given yourself targets for the styles you will be By adding cl adding.

doscriptive class names that make your code easy to develop and maintain. Also, you can add multiple We favor class selectors over other kinds of selectors, and you should, too. You can write very plans names to an element, making them a flexible and powerful tool for styling.

Making Images Fit the Window

to sure to save index.html before moving on.

Making Images Fit the Window

hey are cut off unless the browser window is also large. Add a styling rule for .thumbnail-image in hollowing the atomic styling pattern, the images are next in line for styling. They are so large that tyles, css to make the thumbnails fit in the window:

text-decoration: none; thumbnail-title { thumbnail-image { width: 100%;

In the sum with the browser window, always keeping their proportions. Figure 3.17 shows Ottergram Musset the width to 100%, which constrains it to the width of its container. This means that as you which to your browser, and make your browser window larger and smaller. The images grow and Ilden the browser window, the images get proportionally larger. Check it out: Save styles.css, none narrow and one wider browser window.

Mane 3.17 Fitting an image by width





If you look closely, the spacing around the .thumbnail-titles is off, so that it appears that the the go with the images below them. Fix that in styles.css by setting the .thumbnail-image's dimploproperty to block.

.thumbnail-image {
 display: block;
 width: 100%;
}

Now the space between the image and its title is gone (Figure 3.18).

Figure 3.18 After setting . thumbnail-image to display: block



Why does this work? Images are display: inline by default. They are subject to similar rendering rules as text. When text is rendered, the letters are drawn along a common baseline. Some charactering such as p, q, and y, have a descender - the tail that drops below this baseline. To accommodate them, there is some whitespace included below the boarding.

there is some whitespace included below the baseline.

Setting the display property to block removes the whitespace because there is no need to accommodate any text (or any other display: inline elements that might be rendered alongs the image).

In the body a little more deeply. Add the following color styles for the body element and the styles case in styles.css.

10px; mundi rgb(149, 194, 215);

incorportion: none;

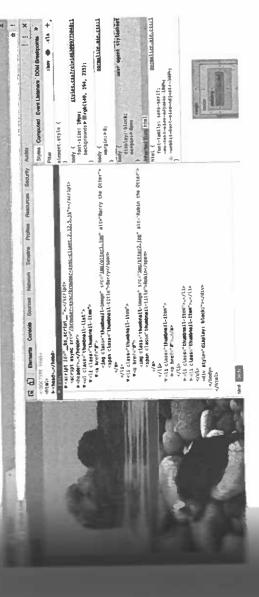
Inclined values for the .thumbnail-item's border twice. Why? Notice that the two manner all the solution and the solution and the solution accepts a mineral which is the opacity. However, some browsers do not support rgba, so providing both manner that provides a fallback value.

Will see the first declaration (rgb) and register its value for the border property. When that the not support rgba see the second declaration, they will not understand it and will make it, using the value from the first declaration. Browsers that do support rgba will use the man ground declaration and discard the value from the first declaration.

Why the body's background color is defined with integers and the .thumbnail-item's the defined with percentages? We will come back to that in just a moment.)

Wen, can and switch to your browser (Figure 3.19).

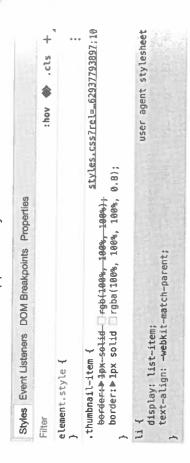
Background color and borders



51

In the DevTools, you can see that Chrome supports rgba. It denotes that the rgb color is not until striking through the style (Figure 3.20)

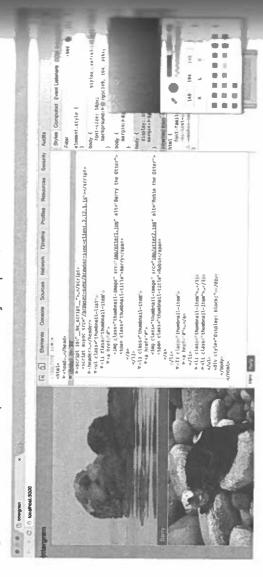
Figure 3.20 rgba is used when supported by browser



Now, still in the DevTools, select the body. In the styles pane, notice the declaration for the buckging color that you just added. To the left of the RGB value is a small square showing you what the will look like.

Click that square, and a color picker opens (Figure 3.21). The color picker lets you choose a color will give you the CSS color value in a variety of different formats.

Figure 3.21 The color picker in the styles pane



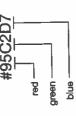
To see the background color in different color formats, click the up and down arrows to the right of the RGBA values. You can cycle through HSLA, HEX, and RGBA formats.

The HSLA format (which stands for "hue saturation lightness alpha") is used less frequently than the others, partly because some of the most popular design tools do not provide HSLA values that are accurate for CSS. If you are curious about HSLA, visit the HSLA Explorer at css-tricks.com examples/HSLaExplorer.

In the HEX value for the background color: #95C2D7. HEX, or hexadecimal, is the oldest mention tormat. Each digit represents a value from 0 to 15. (If you are not familiar with mumbers, this is done by including the characters A through F as digits.) Each pair of the contract of the pairs of digits correspond to the find green, and blue in the color being specified (Figure 3.22).

Adjusting the Space Between Items

HEX values correspond to red, green, and blue values



ILLX colors unintuitive. A modern alternative is to use RGB (red, green, and blue) values. The color is also assigned a value from 0 to 255, but the values are represented in more and separated by color. As mentioned earlier, for more capable browsers a modern specify the opacity or transparency of the specified color, from 0.0 (fully transparent) while the opacity is officially known as the *alpha* value – hence the A in RGBA. The line body's background color is (149, 194, 215, 1).

IN Mayor to declaring integer values for red, green, and blue, you can also use percentages, as the attemporable item borders. There is no functional difference between the two options.

which help selecting pleasing color palettes, Adobe provides a free online tool at the com.

Insting the Space Between Items

The part has some nice colors reminiscent of otters' ocean home. But adding the colors has a more unwanted whitespace inside the border of the .thumbnail-item elements. Also, those the drawing attention away from the glory of the otters.

To get rid of the bullets, set the .thumbnail-list's list-style property to none in styles.css:

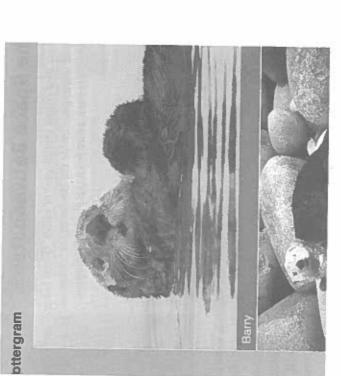
```
.thumbnail-item {
    border: 1px solid rgb(100%, 100%, 100%);
    border: 1px solid rgba(100%, 100%, 0.8);
}
.thumbnail-list {
    list-style: none;
}
.thumbnail-image {
```

To get rid of the whitespace, you will use the same technique you used with the .thumbnail-image. Each .thumbnail-item has that whitespace by default to accommodate items in a list, just as the .thumbnail-image elements had whitespace to accommodate neighboring text. Add a display: block declaration for .thumbnail-item to remove it.

```
.thumbnail-item {
    display: block;
    border: 1px solid rgb(100%, 100%, 100%);
    border: 1px solid rgba(100%, 100%, 100%, 0.8);
}
```

With those additions, the bullets and the excess space above the images disappear, resulting in the more polished layout shown in Figure 3.23.

Figure 3.23 Improved layout



Why use a bullet list if you do not want bullets? It is best to choose HTML tags based on what they are and not how the browser will style them by default. In this case, you want an unordered list of images, so a ut is the way to go. The ut container for your images will let you style them as a scrolling list when you add a detail image to your project in Chapter 4. The fact that the browser represents uts with bullets by default is not important, as they are easily removed.

Relationship selectors

Next, you are going to adjust the spacing of the items in the list. The individual .thumbnail-item elements currently have no space between them. You are going to add margins between adjacent

However, you do not want to add a margin to *all* of the list items. Why not? Because the heading already has a margin, so the first list item does not need one. This means that you cannot use the .thumbnail-item class selector, at least not on its own. Instead, you will use selector syntax that targets elements based on their relationship to other elements.

Relationship selectors

Look again at the diagram of your project in Figure 3.10. It looks much like a family tree, doesn't it? This similarity gives the set of relationship selectors their names: descendent selectors, child selectors, sibling selectors, and adjacent sibling selectors.

Relationship selector syntax includes two selectors (like class or element selectors) joined by a symbol called a *combinator* that determines the targeted relationship between them. To understand how relationship selectors work, it is important to keep in mind that the browser reads selector syntax from *right to left*. Let's look at some examples.

A descendent selector targets any element of one specified type that is the descendent of another specified element. For example, to select any span element that is the descendent of the body element, the syntax would be:

```
body span {
  /* style declarations */
}
```

This syntax uses no combinator. Because it is read from right to left, it targets any span descended from a body, which in the current code means the thumbnail titles. It would also affect any spans that might be added within the header or elsewhere within the body.

Note that you can also use a class selector (or attribute selector, or indeed any type of selector) within a relationship selector, so the selector above could also be written as:

```
body ,thumbnail-title {
  /* style declarations */
}
```

Child selectors target elements of a specified type that are the immediate children of another specified element. Child selector syntax uses the combinator >. To use child selector syntax to target all the spans currently in Ottergram, the syntax would be:

```
li > span {
   /* style declarations */
}
```

Reading from right to left, this selector targets any span that is the immediate child of a 11 element – again, the thumbnail titles.

Sibling selector syntax uses the combinator ~. As you might expect, this syntax targets elements with the same parent. However, because of the directional nature of relationship selectors, the results might not be exactly as you expect. Take this example:

```
header ~ ul {
/* style declarations */
}
```

This selector targets any ulthat is preceded by a header with the same parent element. This selector would effectively target Ottergram's ulthecause it has a sibling header that precedes it in the code. However, reversing the syntax (ultheader) would result in no elements being selected, because there is no header preceded by a sibling ultheader.

The final relationship selector type is the adjacent sibling selector, which targets elements that are *immediately* preceded by a sibling of the specified type. The adjacent sibling combinator is +:

```
li + li {
  /* style declarations */
}
```

This syntax would select all 1 i elements immediately preceded by a sibling 1i. The result is that the declared styles would be applied to the second through fifth 1i – but not the first, because it is not immediately preceded by another 1i. (Note that the general sibling selector and the adjacent sibling selector would work the same way at the moment, due to Ottergram's relatively simple structure.)

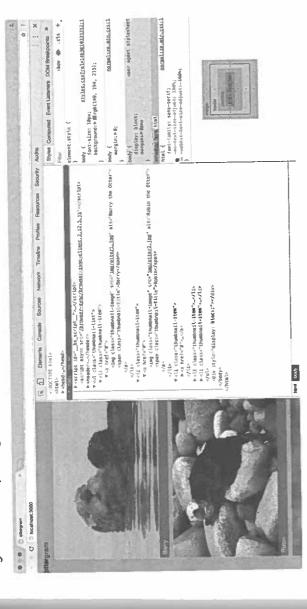
Back to the task at hand: adding a margin to the top of each list item except the first. If you used a descendent or child selector to target the .thumbnail-item class or the span or li elements, the margin would be applied to all five thumbnails. Because you want to style all but the first, use the adjacent sibling syntax in styles.css to add a top margin to only those thumbnails that are immediately preceded by another thumbnail.

```
a {
    text-decoration: none;
}
.thumbnail-item + .thumbnail-item {
    margin-top: 10px;
}
.thumbnail-item {
    .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .thumbnail-item {
        .t
```

Save your file and check out the results in your browser (Figure 3.24).

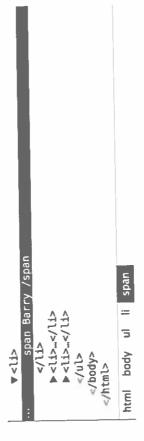
Figure 3.24 Spacing between adjacent .thumbnail-item elements

Relationship selectors



Note that the DevTools give you an easy way to find out the nesting path of an element, which can help with writing relationship selectors. If you click one of the span elements inside one of the \lambda i elements, you can see its path at the bottom of the elements panel (Figure 3.25).

Figure 3.25 Nesting path shown by the elements panel

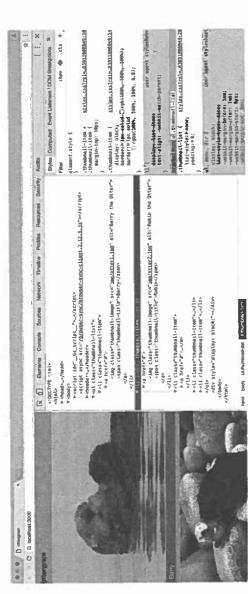


For one final tweak to the thumbnail list's appearance, return to styles.css and override the padding that the ul inherits from the user agent stylesheet so that the images are no longer indented.

```
.thumbnail-list {
   list-style: none;
   padding: 0;
}
```

As usual, save your file and switch to your browser to see your results (Figure 3.26).

Figure 3.26 ul with padding removed



Ottergram is starting to look polished. With some styling for the header, you will have a nice static web page.

Adding a Font

Earlier, you added the .logo-text class to the h1 element. Use that class as the selector for a new styling rule in styles.css. Insert it after the styles for the anchor tag. (In general, the order of your styles only matters when you have multiple rule sets for the same selector. In Ottergram, the styles are arranged in roughly the same order as they appear in the code. This is a matter of preference, and you are free to organize your styles as you see fit.)

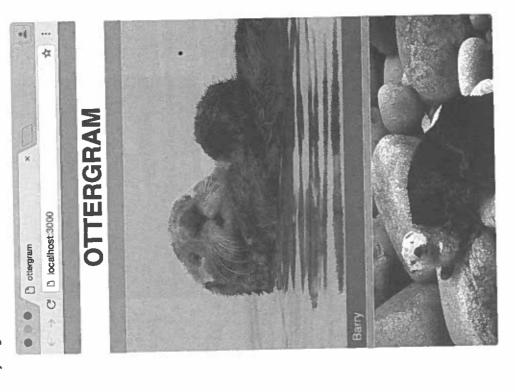
```
a {
    text-decoration: none;
} -
.logo-text {
    background: white;
    text-align: center;
    text-transform: uppercase;
    font-size: 37px;
}
```

First, you gave the header a white background. Then you centered the text inside the .logo-text element and used the text-transform property to format it as uppercase. Finally, you set the font size. Your results will look like Figure 3.27.

.thumbnail-item + .thumbnail-item {

Figure 3.27 Styling the header

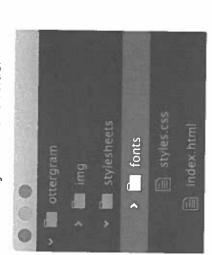
Adding a Font



Ottergram looks great. Great... but a little plain for a website with otters. To add some pizzazz, you can use a font for the header other than the default provided by the user agent stylesheet.

We included some fonts in the resource files you already downloaded and added to your project directory. To use them, you need to copy the fonts folder into your project. Place it *inside* your stylesheets folder (Figure 3.28).

Figure 3.28 fonts folder inside stylesheets folder



Now you only need to point some styles to those fonts.

The resource files include many formats of each font. As usual, different browser vendors support different kinds of fonts. To support the widest array of browsers, you need to include all of them in your project. Yes, all of them.

To help you out, the @font-face syntax lets you give a custom name to a family of fonts that you can then use in the rest of your styles.

An @font-face block is a little different from the declaration blocks you have been using. Inside of the @font-face block are three main parts:

- First, the font-family property, whose value is a string identifying the custom font name you can use throughout your CSS file.
- Next, several src declarations specifying different font files. (Take note the order is important!)
- Last, declarations that modify the font's presentation, such as the font-weight and the font-style.

Add an @font-face declaration for the lakeshore font family to the top of styles.css and a style declaration to use the new font for the .logo-text class.

Adding a Font

@font-face {
 font-family: 'lakeshore';
 font-family: 'lakeshore';
 src: un'('fonts/LAKESHOR-webfont.eot');
 src: un'('fonts/LAKESHOR-webfont.eot?#iefix') format('woff'),
 un'('fonts/LAKESHOR-webfont.woff') format('ruetype'),
 un'('fonts/LAKESHOR-webfont.tf'') format('ruetype');
 un'('fonts/LAKESHOR-webfont.svg#lakeshore') format('svg');
 font-weight: normal;
 font-size: 10px;
 body {
 font-size: 10px;
 background: rgb(149, 194, 215);
 }
 a {
 text-decoration: none;
 }
 conter;
 text-align: center;
 text-align: center;
 text-align: center;
 text-align: lakeshore;
 font-size: 37px;
}

Admittedly, getting the @font-face declaration just right can be tricky, because the order of the individual url values is important. It is a good idea to keep a copy of the declaration for reference. You can also look into Atom's snippets documentation at flight-manual.atom.io/using-atom/sections/snippets to see how to create your own code "snippet," or template.

After declaring the custom @font-face, the rest of your CSS has access to the new lakeshore value for the font-family property. In the .logo-text declaration, you set font-family: lakeshore to apply the new font.

Save styles.css, switch to Chrome, and see how good it feels to have a web page as stylish as an otter (Figure 3.29).

Figure 3.29 Applying a custom font to the header



You did a lot of styling work in this chapter, and Ottergram looks great! In the next chapter you will make it even better by adding interactive functionality.

Bronze Challenge: Color Change

Change the background color styles for body. Use the color picker in the DevTools (Figure 3.21) to help you choose one.

For a more sophisticated color palette, go to color, adobe, com and create your own scheme for the body and . thumbnail-title background colors.

For the More Curious: Specificity! When Selectors Collide...

For the More Curious: Specificity! When Selectors Collide...

Now have already seen how you can override styles. You included the link for normalize.css before the styles.css, for example. This made the browser use normalize.css's styles as a baseline. With your styles taking precedence over the baseline styles.

This is the first basic concept of how the browser chooses which styles to apply to the elements on the major known to front-end developers as recency: As the browser processes CSS rules, they can override allow that were processed earlier. You can control the order in which the browser processes CSS by they are order of the Link> tags.

INDEPORT IN SIMPLE Enough when the rules have the same selector (for example, if your CSS and MOTMALEZES were to declare a different margin for the body element). In this case, the browser MONMAS the more recent declaration. But what about elements that are matched by more than one working.

My you had these two rules in your Ottergram CSS:

humbnail-item {
buckground: blue;
}
luckground: red;

Moth of these match your selements. What background color will your elements have?

For though the li { background: red; } rule is more recent, .thumbnail-item { background: will be used. Why? Because it uses a class selector, which is more specific (i.e., assigned a Miller specificity value) than the element selector.

If the selectors and attribute selectors have the same degree of specificity, and both have a higher profiteity than element selectors. The highest degree of specificity goes to *ID selectors*, which you have not seen yet. If you give an element an id attribute, you can write an ID selector that is more profite than any other selector.

In mirributes look like other attributes. For example:

| thuss="thumbnail-item" id="barry-otter">

Number the ID in a selector, you prefix it with #:
| Numberail-item {

hit kyround: blue;

Indkground: green;
(

In this example, the is matched by all three selectors, but it will have a green background because the ID selector has the highest specificity. The order of your rulesets makes no difference here, because each has a different specificity.

One note about using ID selectors: It is best to avoid them. ID values must be unique in the document, so you cannot use the id="barry-otter" attribute for any other element in your document. Even though ID selectors have the highest specificity, their associated styles cannot be reused, making them a maintenance "worst practice."

To learn more about specificity, go to the MDN page developer.mozilla.org/en-US/docs/Web/CSS/Specificity.

The Specificity Calculator at specificity.keegan.st is a great tool for comparing the specificity of different selectors. Check it out to get a more precise understanding of how specificity is computed.