

BUILD YOUR OWN WEBSITE

A COMIC GUIDE
TO HTML,
CSS,
AND

WORDPRESS®

NATE COOPER

WITH ART BY KIM GEE



Build Your Own Website

Build Your Own Website

A Comic Guide to HTML,
CSS, and WordPress

Nate Cooper
with art by Kim Gee



San Francisco

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About the Author



Photo credit: Amanda Ghanooni

Nate Cooper is a writer and consultant in New York City. After working in retail marketing at Apple Inc., Nate has established himself within the New York tech and entrepreneurial community, writing on the subject of business strategy. His company Simple Labs consults with businesses on WordPress implementation and content strategy, and regularly draws audiences for events on the topics of communications and technology.

About the Illustrator

Kim Gee is an illustrator and graphic designer, currently living in New York City with her boyfriend and her pet dog, Tofu. In 2010 she created her eponymous web comic and has since self-published a graphic novel and mini-comic collecting her work.

A Note from the Author

When I started my consulting business, I anticipated a demand for basic web skills in the design community. Graphic designers who'd been able to get by knowing just Photoshop, Illustrator, and InDesign would tell me that their clients started expecting them to know how to write HTML and CSS. As companies started shifting over from proprietary content management systems to general CMSs like WordPress, the need for designers to have basic tech knowledge grew. Today, designers must be able to create content both for print and for the Web, and that means knowing HTML and CSS.



When seen against the media's transition from print to Web, perhaps this shouldn't be shocking. What surprised me, however, is how much interest in these skills has spread beyond the design and media communities. If you're as old as I am, you might remember a time and place when office desks didn't always have computers on them. I remember visiting my dad's office at a community college while I was still in high school. He was considered forward-thinking because he not only had a computer on his desk but he actually read his own email, which was unheard of by certain college administrators.

We don't live in that world anymore. It didn't take very long for the Internet, desktop computers, word processing, typing skills, and email to become standard tools for nearly every single job in existence. Now, not only designers, but all sorts of professionals are required to produce content for the Web using basic HTML and CSS. The Web is taking over, but that doesn't mean learning about it has to be a pain.

My hope is that this book will appeal to those people feeling left behind as well as those who want to get ahead. We live in an ever-changing world where the skills you learn today aren't guaranteed to carry you into the future. To succeed in the jobs of the future, you'll have to learn not only what's needed for the task at hand, but also how to adapt and learn new skills. Learning shouldn't be a chore! Once you figure out how to make learning a fun experience, you'll crave it.

Whether you're a designer, writer, student, or anyone else who's new to website design, I hope you find this comic funny and interesting, but I also hope it inspires you to adopt the mantra *learning is awesome!*

Looking forward to the future! :)

Nate Cooper
July 2014

Acknowledgments

This book started as a Kickstarter project. Though the project has evolved quite a bit since the original plan, I wanted to express my sincere thanks to those who initially supported me in my goal of writing an educational comic book.

These early adopters proved that people want this book to exist and put their money where their mouth is. I thank them for believing in me, and in this concept.

A special thanks to my top funders: Matthew Bergman, Dwight Bishop, Dean Cooney, James Cropcho, Sue Maisonneuve, Steven Morrison, Edward O'Neill, and Johan Uhle.

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1

The First Day of Class



Web Basics 101

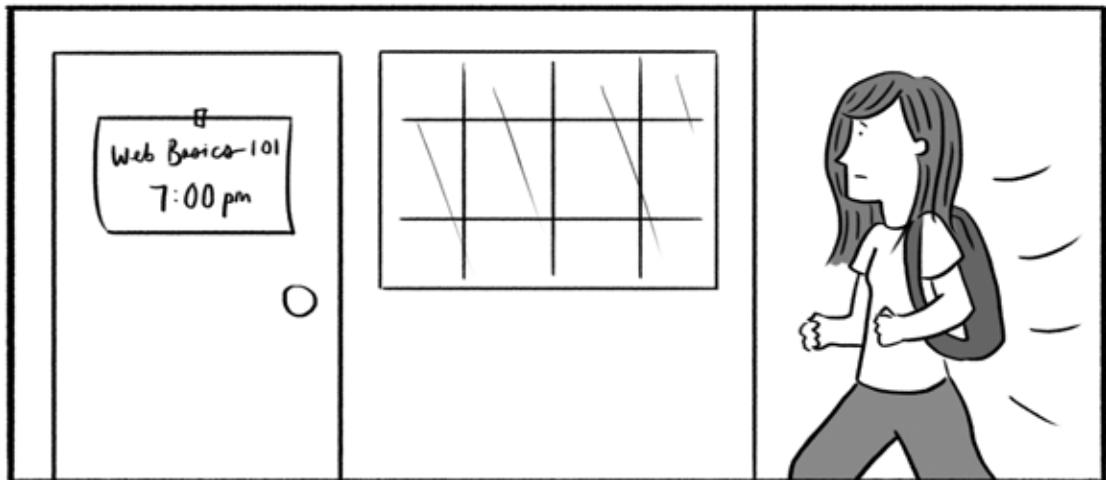


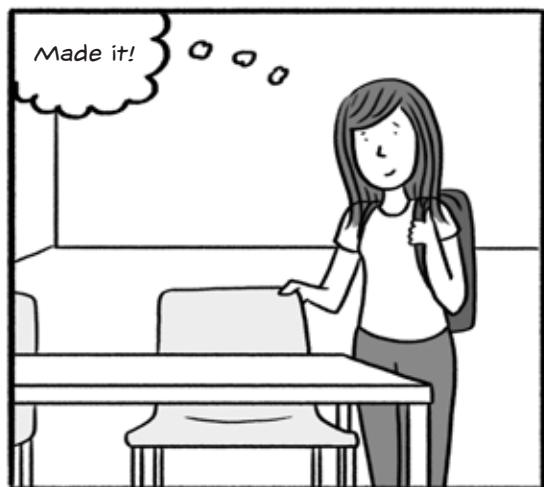
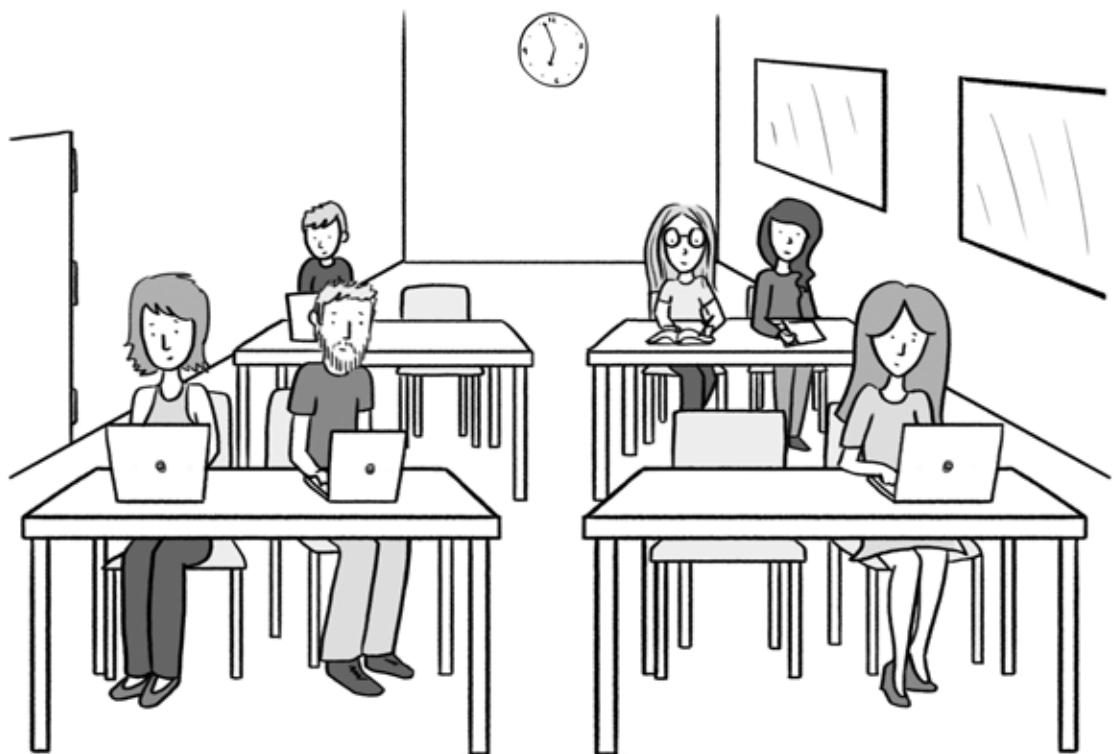


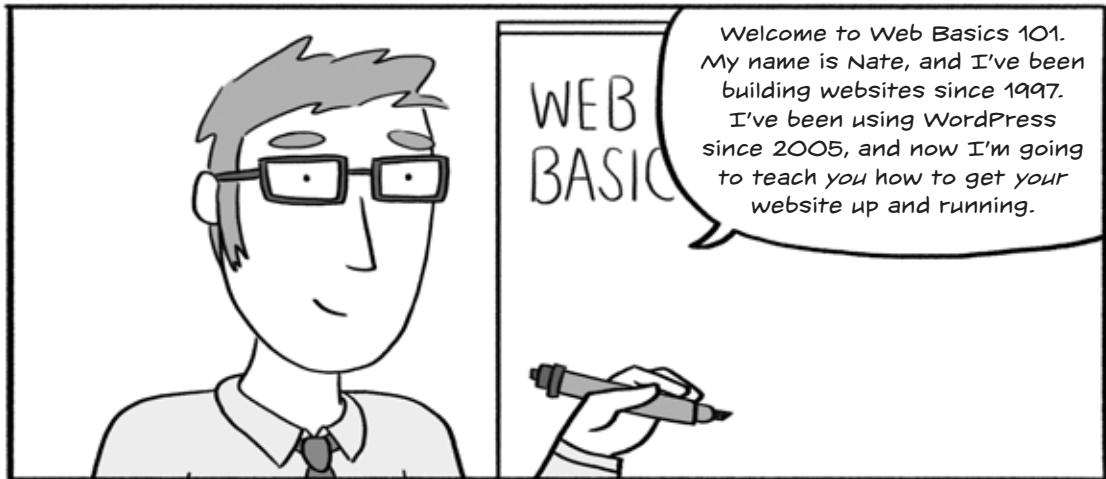












What You Need

In this book you'll learn the fundamental concepts that go into building a website. We'll discuss the basics of HTML, CSS, and WordPress. By the time you're finished, you will have everything you need to launch your very own website. One little book can't teach you everything about developing websites, though. Learning is a process, and I hope that this book is a helpful beginning on your journey to becoming a web guru.

It's up to you to do the exercises and to make sure you get the practice you'll need. This book takes the "learn by doing" approach. You'll need a couple of things on your own computer to follow along.

A Web Browser

First, you'll need a web browser. A *web browser* is what you use to view web pages online. If you're running Windows, I recommend you download Chrome, Firefox, or Safari and not use Internet Explorer. Many older versions of Internet Explorer are not equipped to handle modern conventions for the Web. While most of what we're doing in this book will work fine in Internet Explorer, if you go deeper into web development you'll be glad that you started using these other browsers.

If you're on a Mac, you already have Safari installed and can stick with that if you'd like. But you may also want to get Firefox or Chrome to test out your work. Even though this is an extra step, you may find that you prefer some Firefox or Chrome features.

Having more than one browser is a great idea so you can see the differences between them, as well as see how your website will appear to visitors using different browsers.

A Text Editor

Next, you'll need a text editor or code editor of some kind. Why bother getting a program just to write boring old text? A good code editor is designed to help you with the tricky parts of writing HTML and CSS. When you open a text editor, at first glance it may look similar to Microsoft Word or other word processors. But once you dig in, you'll see that it is specially designed to display code, as Figure 1-1 shows.

```
<p>Word processor without <em>code highlighting</em>.</p>
```

```
2
3
4  <p>Code editor with <em>code highlighting</em>.</p>
5
6
7
```

Figure 1-1: Don't use Word or another word processing program to write HTML (top)! A good code editor makes your job easier (bottom). It will highlight pairs of tags, use a monospaced font, and save the files in the right way.

If you're on a PC running Windows, NotePad++ is a great free option (available at <http://www.notepad-plus-plus.org/>). If you're on a Mac, you can download Text Wrangler for free (<http://www.barebones.com/products/textwrangler>). Sublime Text is an excellent free code editor that works on both Macs and PCs (<http://www.sublimetext.com/>) and one I would highly recommend. Choose an editor you like, and get to know it.

A web browser and a text editor are all you need to follow along with the chapters on HTML and CSS. If you get comfortable using a code editor, it can pay off down the line if you pursue a more advanced scripting language, like PHP, JavaScript, or Ruby.

Stuff to Know

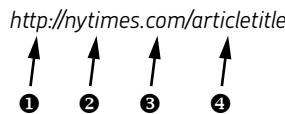
In this book, I assume you can use a file browser (Finder on Mac, Explorer on Windows) to open and save files and install programs, and that you generally know your way around a computer. There are some other basics you'll also need to know.

How Do You Read an Address?

You've probably seen a website address before. It looks like `http://nytimes.com/`, `http://en.wikipedia.org/`, or `http://hostarch.com/websitecomic`. Because we geeks like fancy names, we call this a *URL*, which is short for *uniform resource locator*. We'll just call it a link or an address for now, though.

As you move to new places on the Web, this address changes, just as your location changes as you walk around big city blocks and go to new stores.

Let's take a closer look at what each part of an address does:



- ❶ First, there's the **`http://`**. That lets us know that we're using *HTTP*, the *HyperText Transfer Protocol*. That's a fancy way of saying that the web browser should expect to receive an HTML document. We'll write some of our own HTML in Chapter 2.

HTTP is the most common protocol you'll see on the Web. Another one worth knowing is *HTTPS*, which means *Secure HyperText Transfer Protocol*. You should see this protocol used on pages where you're entering confidential information, like credit cards or passwords. You might also see other protocols from time to time, like `ftp://` (short for *File Transfer Protocol*, which is described in "An FTP Client" on page 14).

- ❷ Then we have the domain name. Here, that's **`nytimes`**.
- ❸ The **`.com`** that follows means that this site is commercial. While `.com` is still the most popular kind of top-level domain, you'll see all sorts of different top-level domains these days.
- ❹ The rest of the URL points to an article, blog post, or other particular resource or page.

What Are Clients and Servers?

Ever wonder what's on the other end when you go to a website, or what makes the Web work? It's just a bunch of computers talking to one another.

When you visit Wikipedia, your computer talks to the Wikipedia server. It works a little bit like this:



When you ask your web browser to pull up a Wikipedia article, Wikipedia's server (shown in Figure 1-2) brings you the article, just like the server at a restaurant brings you a menu or a croissant when you ask.

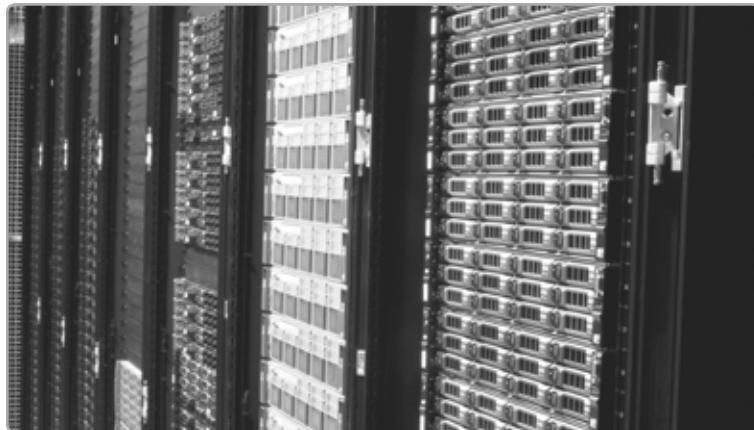


Figure 1-2: A server can be a simple desktop computer, or it can be racks of specialized computers like the servers in this photo, which serve up Wikipedia pages. The more traffic your website gets, the bigger and better server you'll need. (Photo credit: Victorgrigas)

Until today, you've probably been mostly acting as a client, requesting pages from the Web. Well, now you're going to be serving up those pages. But you might be wondering where you'll get your own server.

What's a Host?

To make sure the web pages you create can be seen by the world, you'll need to have a server of your own. Running a server can be a pain, so people often buy space on someone else's server. A company that sells space on a server is called a *web host*. For a fee, a web host stores your web pages and keeps them up and available 24/7 to anyone who wants to access them. Usually, setting up a host involves two steps. First, you register a domain (like www.natecooper.co) for a fee, and then you pick a host and pay a monthly or yearly fee for the hosting.

An FTP Client

Eventually, you'll need a way of sending files to your host. This is how you'll add pages and edit articles. For that you'll need an *FTP (File Transfer Protocol)* program. A great free FTP program available for both Windows and Mac is FileZilla (<http://www.filezilla-project.org/>). Once you've signed up for hosting, you'll get the login information from your host and be able to connect remotely via FTP. You don't need an FTP client yet, but you may find yourself needing one later when you have your first website.

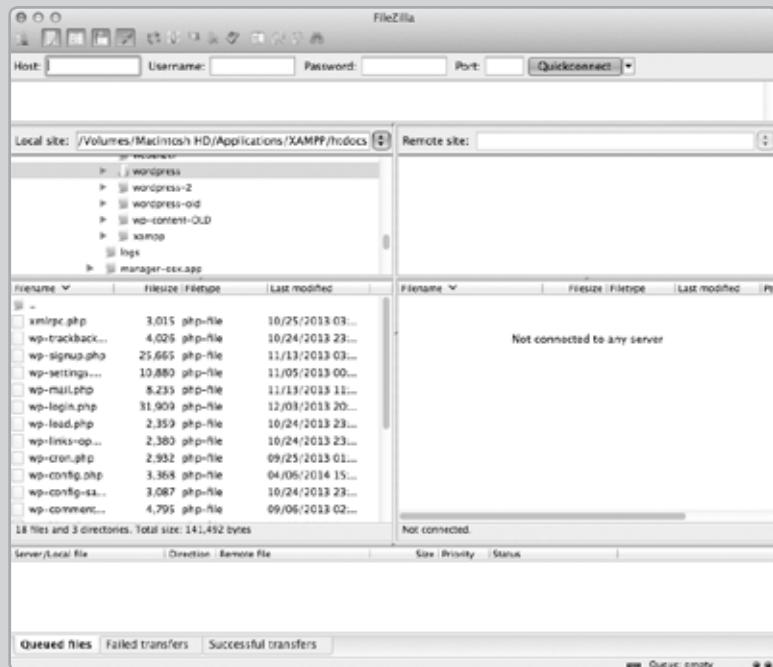


Figure 1-3: FileZilla is a free FTP application that lets you upload files from your computer to a remote server.

But you don't need to spend any money to follow along with everything covered in this book. As we build web pages in HTML and CSS, you'll be testing them on your computer using your web browser. That means you'll just be checking how your web pages look on your own computer, without having those pages broadcast on the Internet.

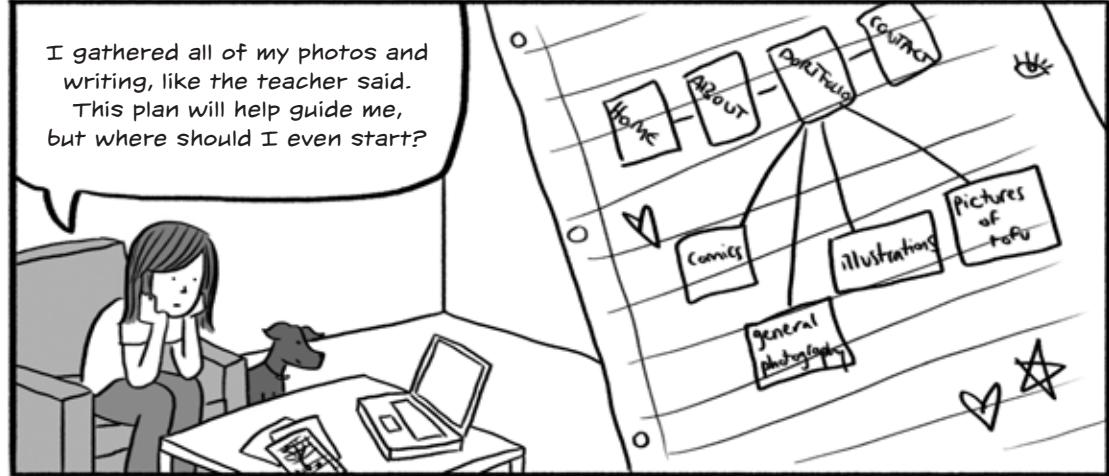
When we start playing with WordPress in Chapter 4, you'll need a host because WordPress uses technology that requires a server in order for it to work. To follow along you can use a free WordPress account from WordPress.com, or if you sign up for hosting with a third-party site like Host Gator, you can set up WordPress for free (see Chapter 6).

We'll revisit some particulars of how to buy a host in the last chapter of this book. For now, file that away in the to-do list in your mind. If you've installed your web browser and a code editor, all you need now is a sense of adventure. Get ready to learn!

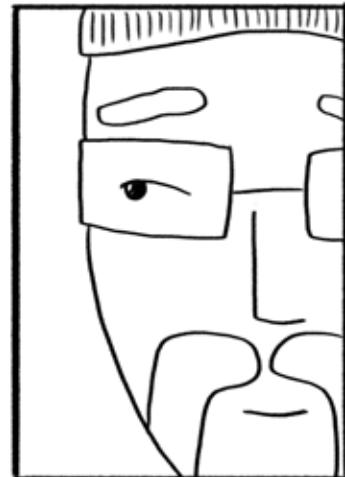
2

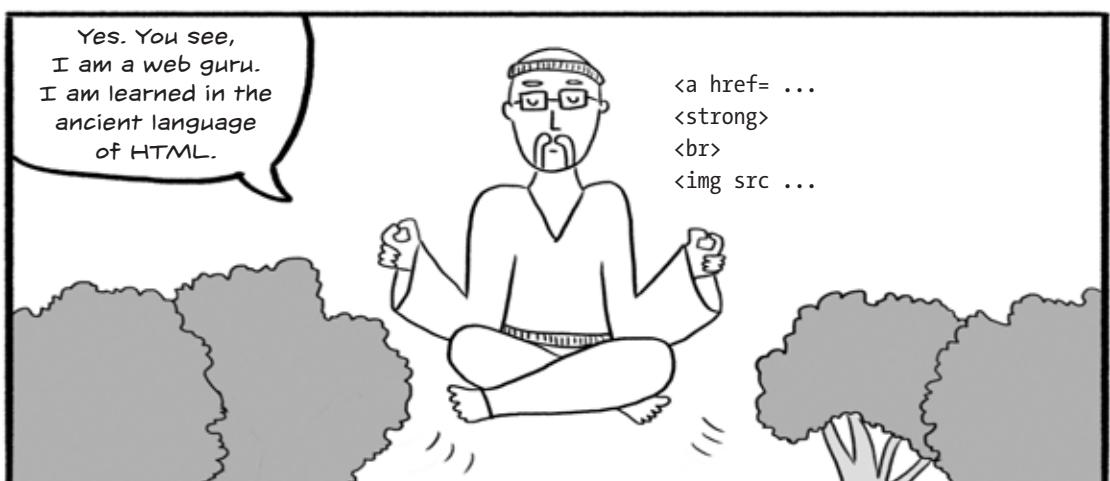
The Trouble with HTML

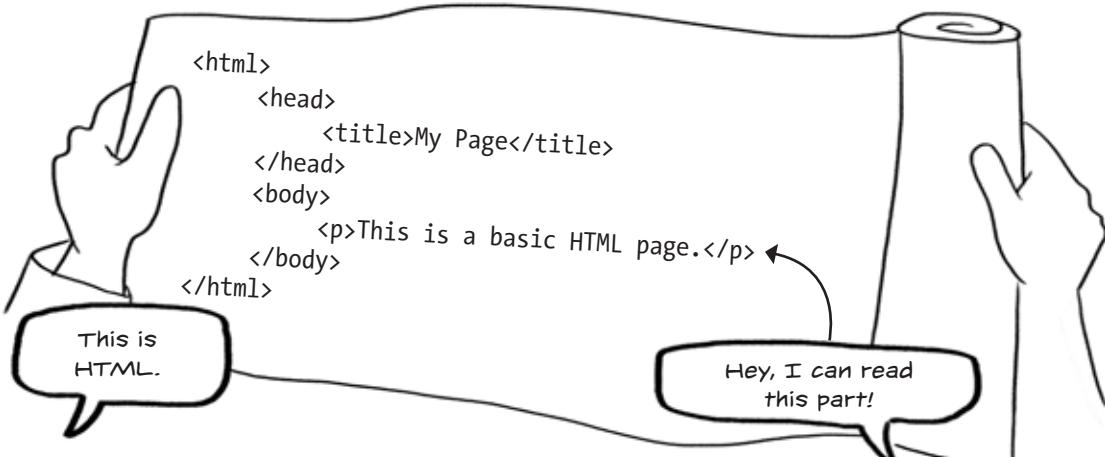
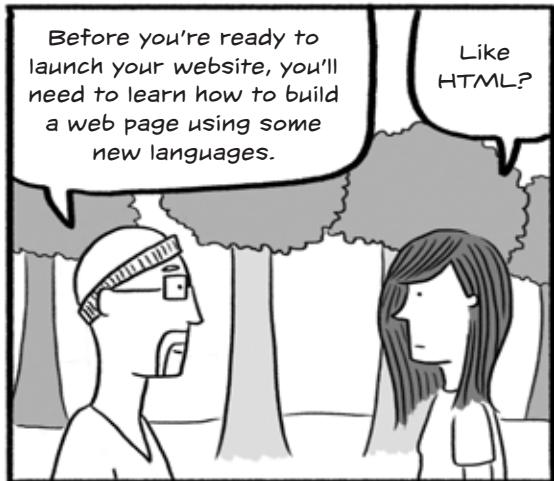




Kim Learns Basic HTML Tags







That's right. HTML is a markup language. That means it's a language that gives structure to regular old text. The acronym HTML stands for *HyperText Markup Language*.

Hyper? Like how Tofu is hyperactive?

More like hyperconnected. Hyperlinks are the words and pictures in a web page that you click to take you from one page to another. Follow me.

Gotcha.

< p > is the first tag we'll use.

Huh? Is my shirt on inside out?

Ha! No, not your shirt tag. Markup tags surround the text in your document to change the words between them.

So, for example, if we use the text in here is italic, stands for emphasis. <p> stands for paragraph.

That's how we make a new paragraph!

Exactly!

Okay, I think I remember this from class. So the `<head>` and the `<body>` are parts of the page, too, right?

Right! The `<html>` tags wrap everything, and the `<body>` is the part you see in the browser window. Let's try using the `<p>` tag in the `<body>`.

`<html>`

`<head>`

`</head>`

`<body>`

`</body>`

`</html>`

Yep.

So when I put something in between `<p>` and `</p>`, it will be part of one paragraph?

Hey, what's going on?
My new paragraphs aren't showing up on the page.

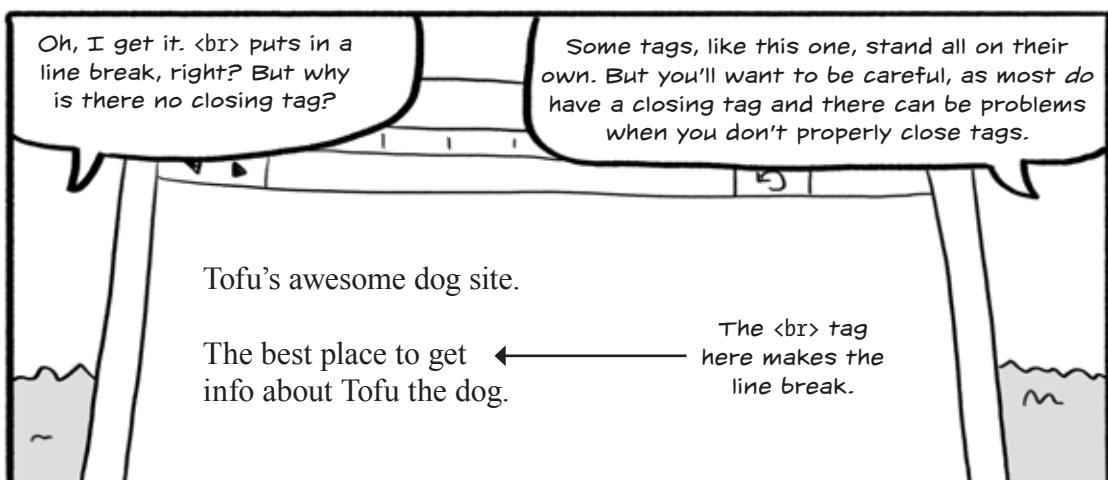
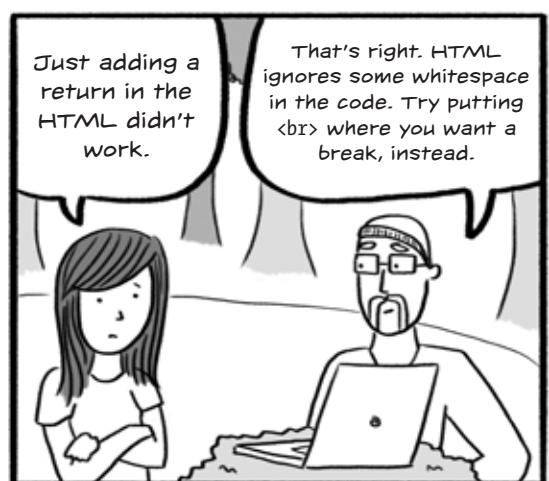
`<body>`

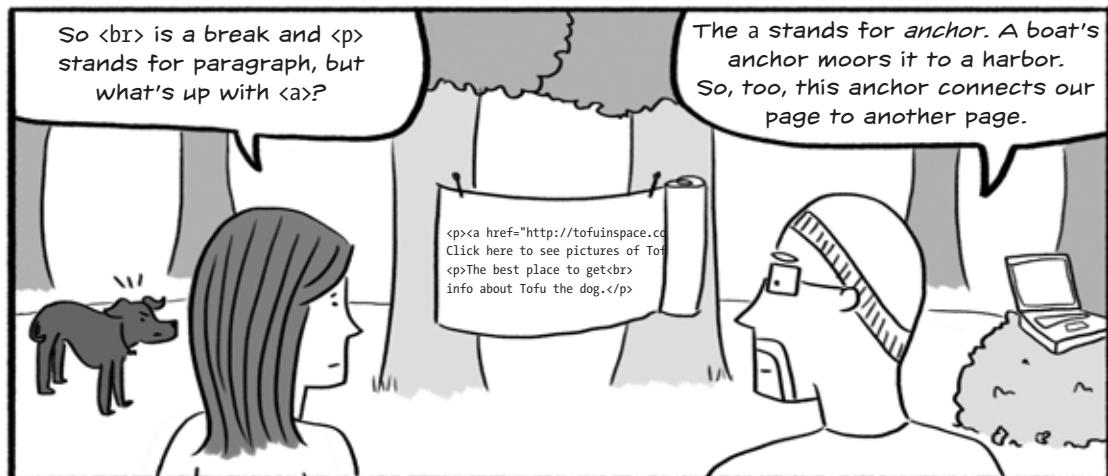
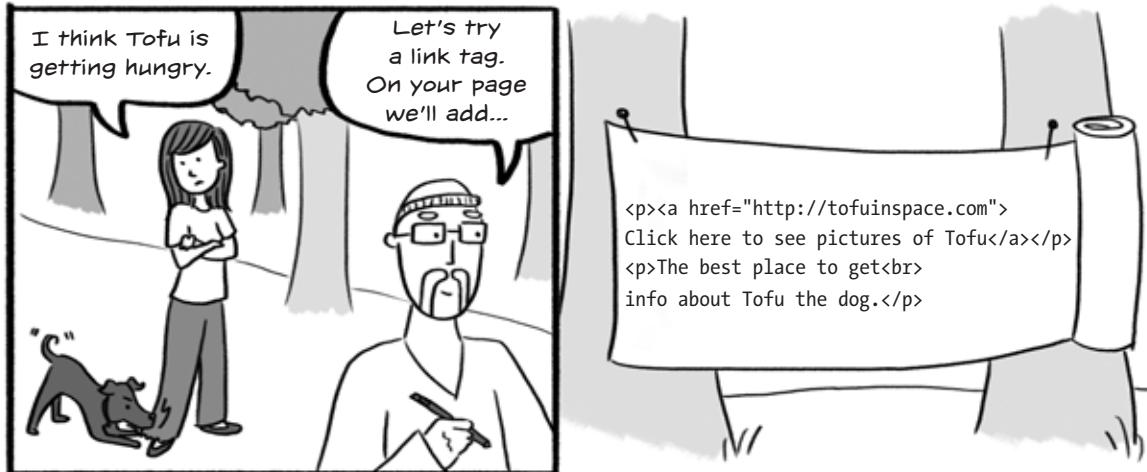
`<p>Tofu's awesome dog site.</p>`

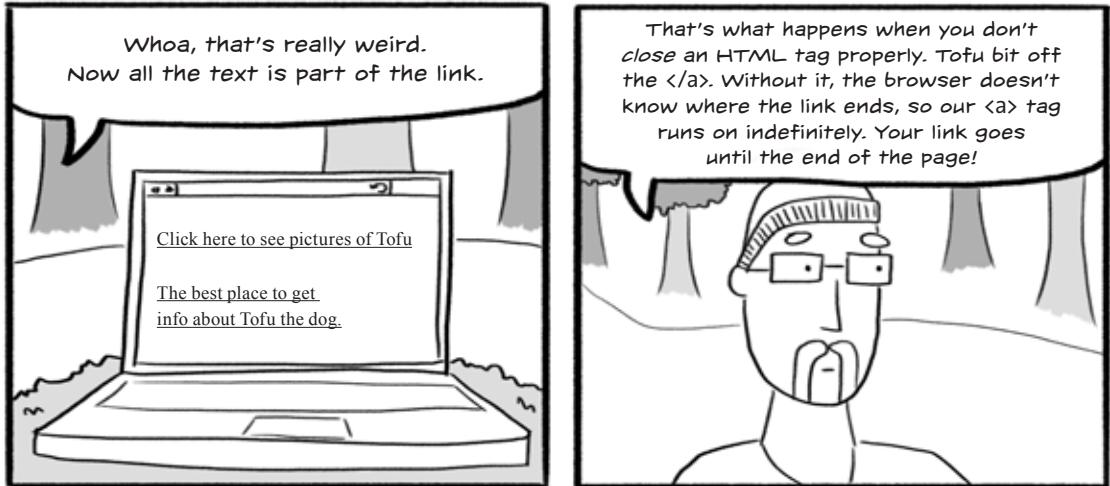
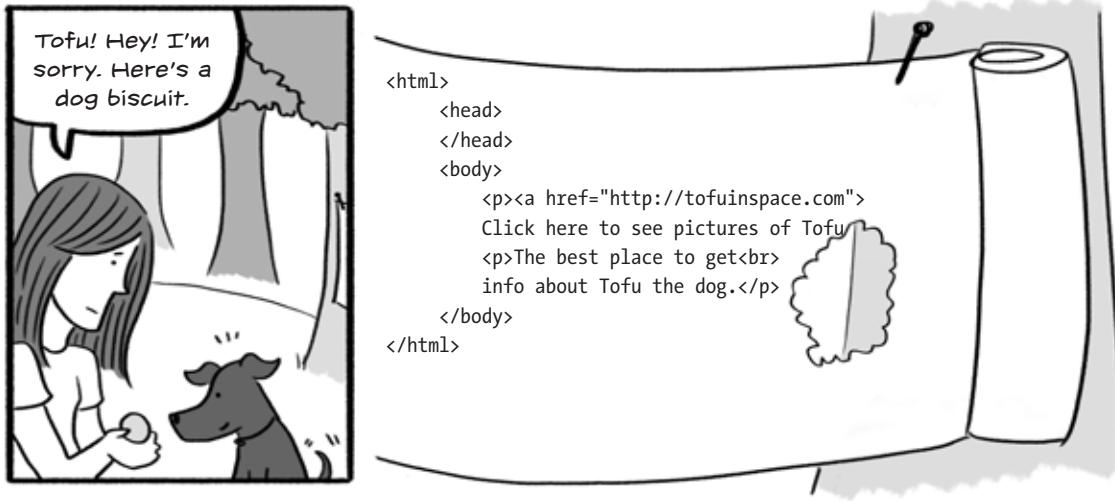
`<p>The best place to get`

`info about Tofu the dog.</p>`

`</body>`



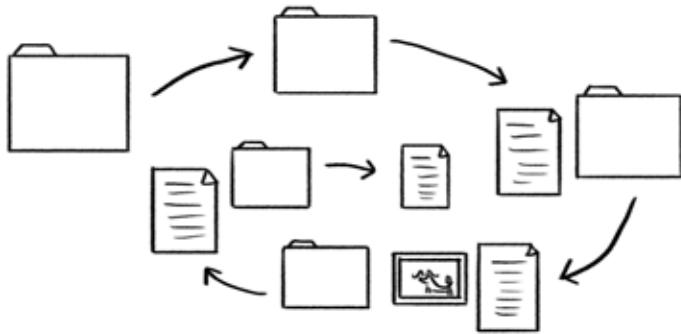




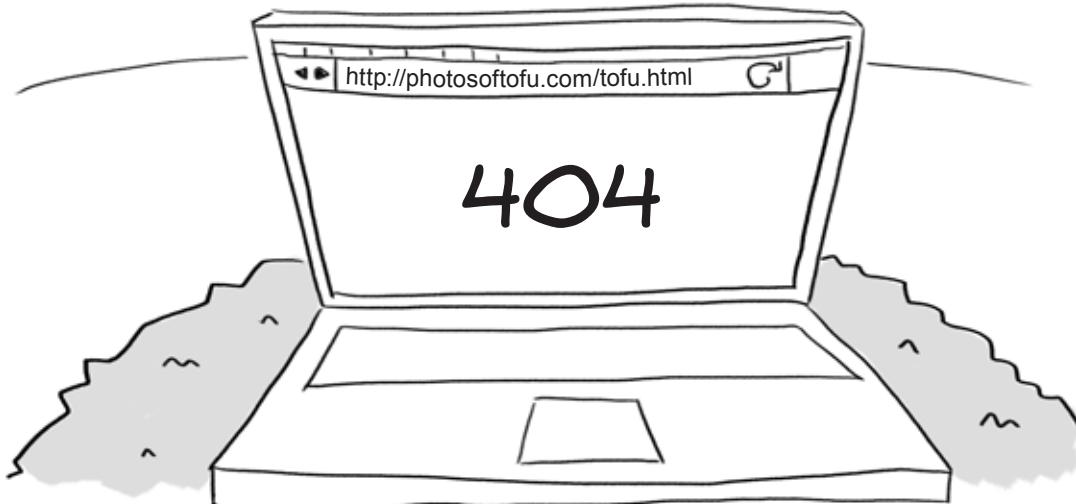
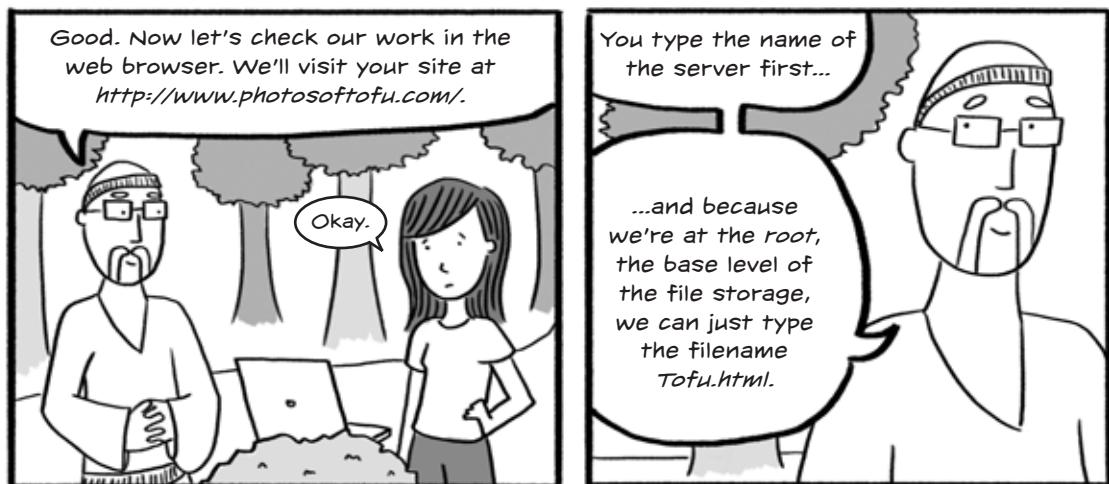
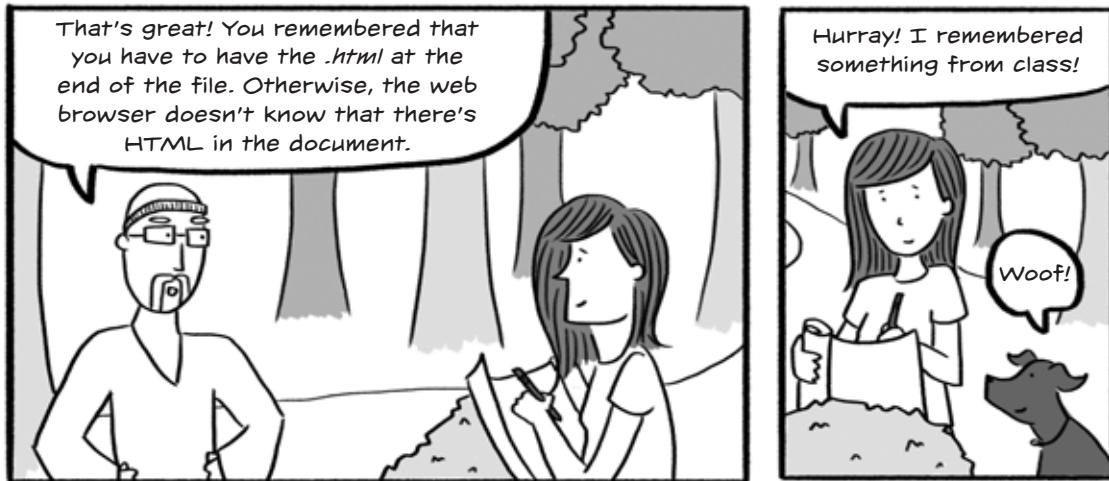
Paths and Naming Conventions



You see, many years ago, scientists using an operating system called `UNIX` invented the hierarchical filesystem.











* 404 errors appear simply as a warning, but your goal as a web developer should be to avoid these errors the same way you would avoid a fire-breathing dragon. Broken links mean that your visitors won't have a good time on your site.



Naming Conventions for HTML Documents

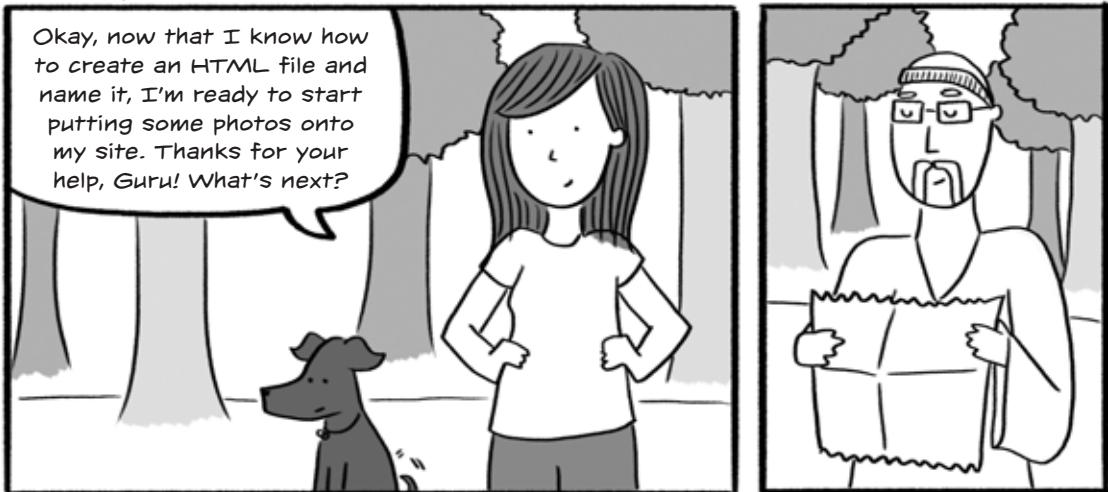
If you follow a few tips when naming your document, you'll end up defeating dragons (errors) or avoiding them altogether.

- Be consistent with capitalization. If you have a choice, don't use any capitals in your document names. So, for example, *Tofu.html*, *ToFu.html*, and *TOFU.HTML* are all different names. It's easiest to consistently name your pages all in lowercase, like *tofu.html*.
- Don't use spaces in filenames. If you have a file named *tofu in space.html* on your computer, it will likely show up as *tofu%20in%20space.html* when viewed in a web browser. However, this is not guaranteed to work on all computers.
Play it safe. Don't use spaces, or if you must, substitute hyphens like so: *tofu-in-space.html*.
- Files named *index.html* are special. An index file is the *default file* for the folder and will load if no other file is specified.

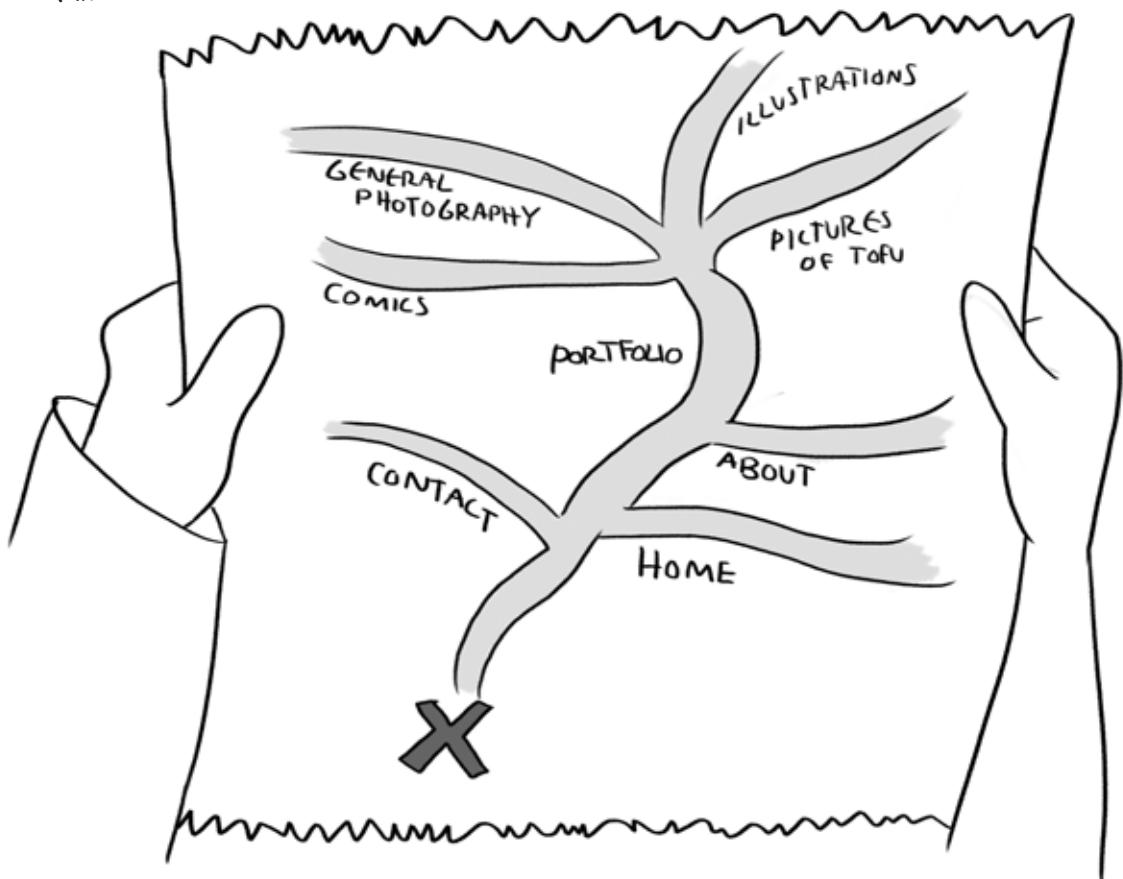




Adding Pictures



Hmm. Let's consult the map.



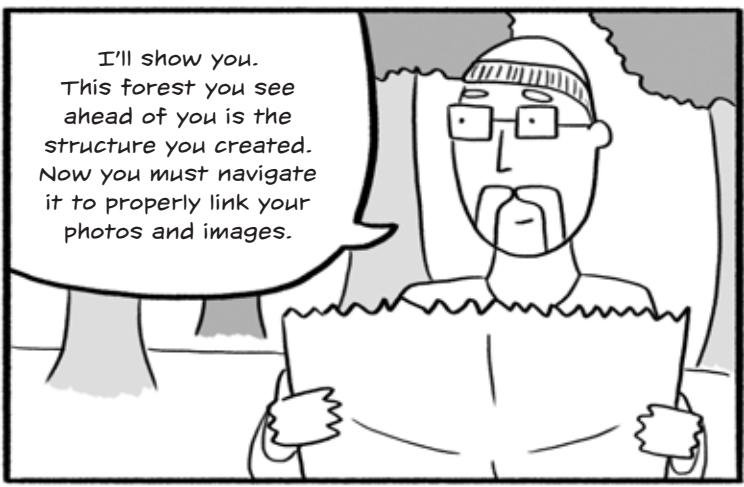


What's this?

Before you start to put your pages together, you should use the site map you made in class to guide you.



Oh, right.
The site map. Why do I need that now?



I'll show you.
This forest you see ahead of you is the structure you created. Now you must navigate it to properly link your photos and images.

I have but one more HTML tag to show you before you enter the forest: the `` tag.

```
<img src="" alt="">
```



With the `` tag and the proper path...



...you can embed your images with ease.



How did you do that?

Woof.



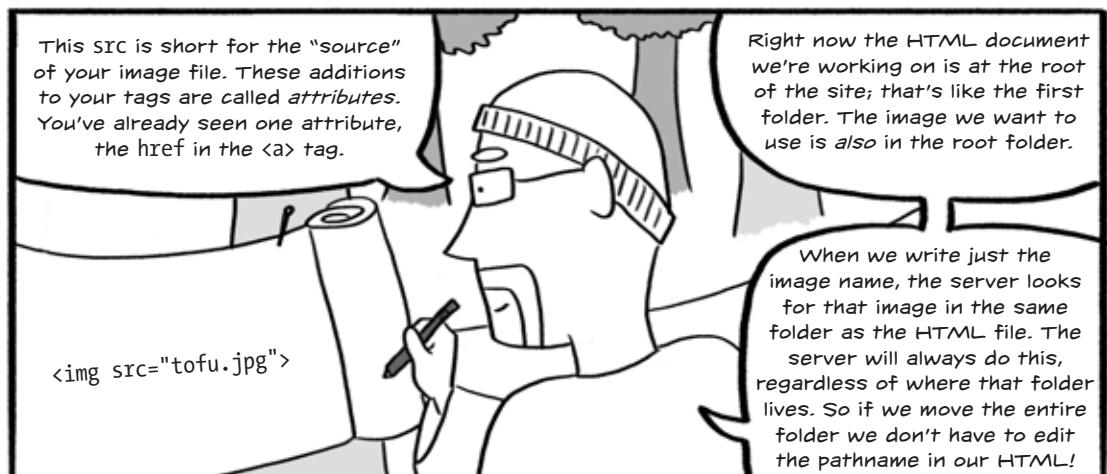
We're here at the root, remember? This is the base of the file structure. So if I wanted to go directly to this image, do you know the path?

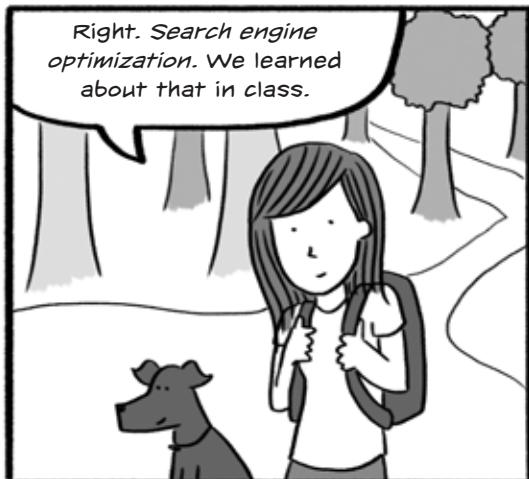
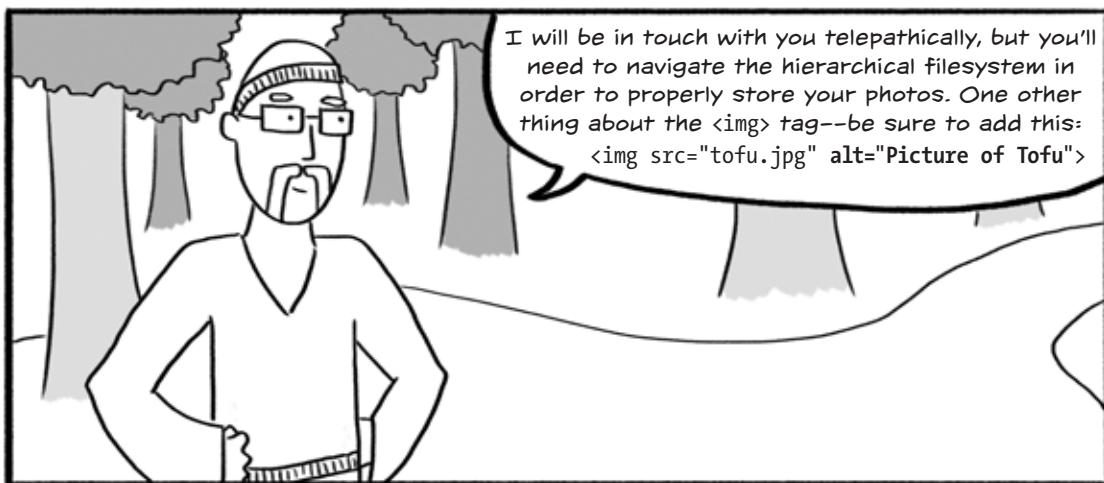




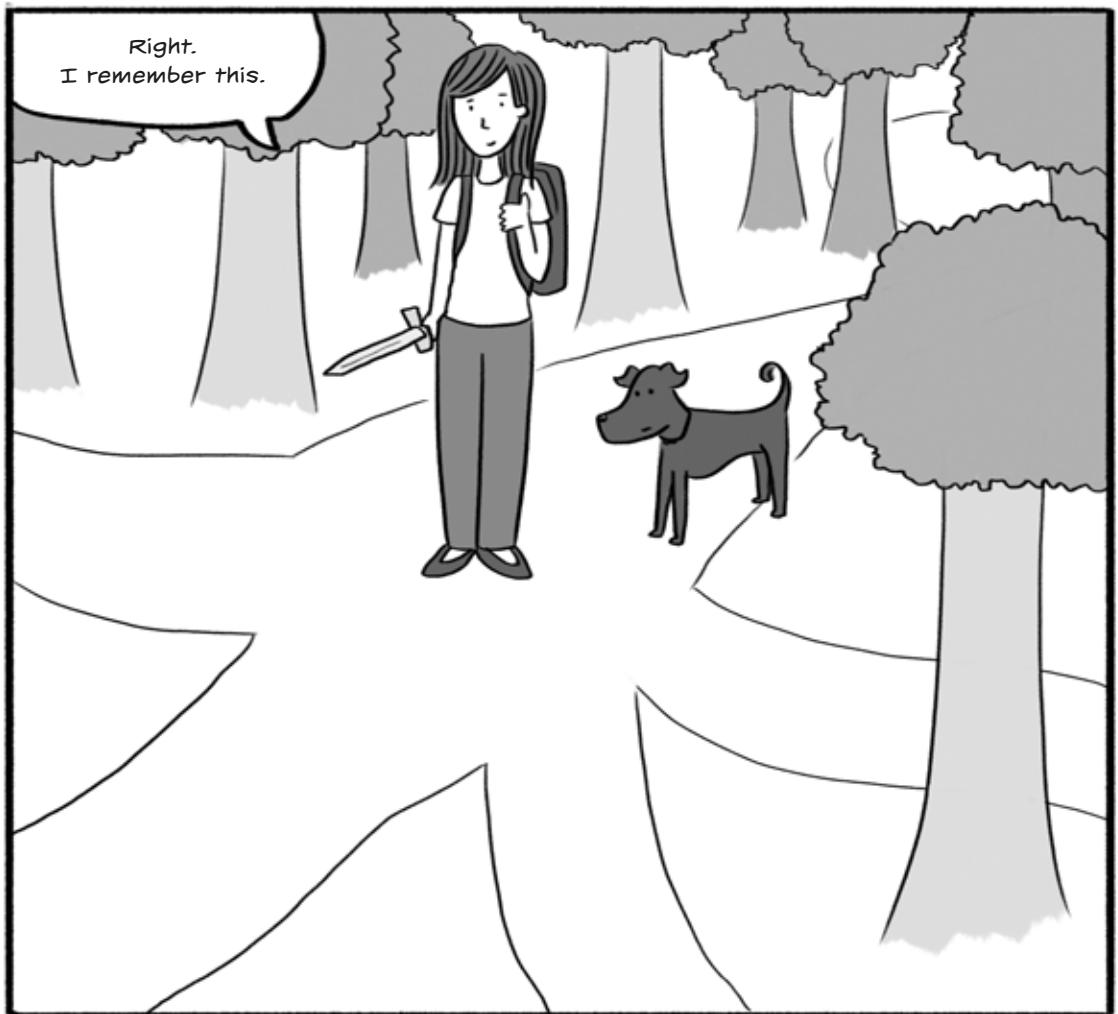
Yep! This is called the *absolute URL*, since it's an exact route to that image. The code in bold shows how you'll embed this image into your HTML.

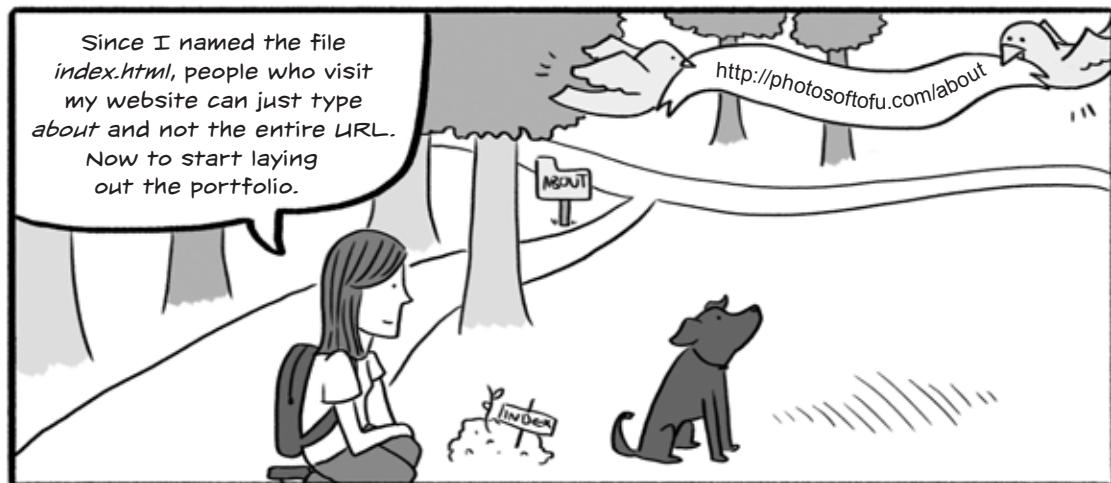
```
<html>
  <head>
  </head>
  <body>
    <p><a href="http://tofuinspace.com">
      Click here to see pictures of Tofu</a></p>
    <p>The best place to get<br>
      info about Tofu the dog.</p>
    
  </body>
</html>
```

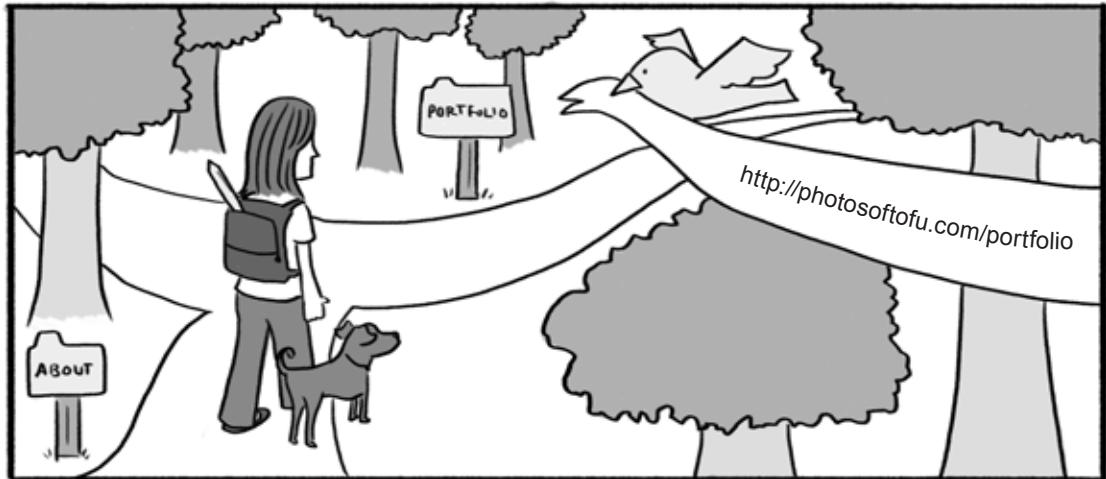




Organizing Files and Folders



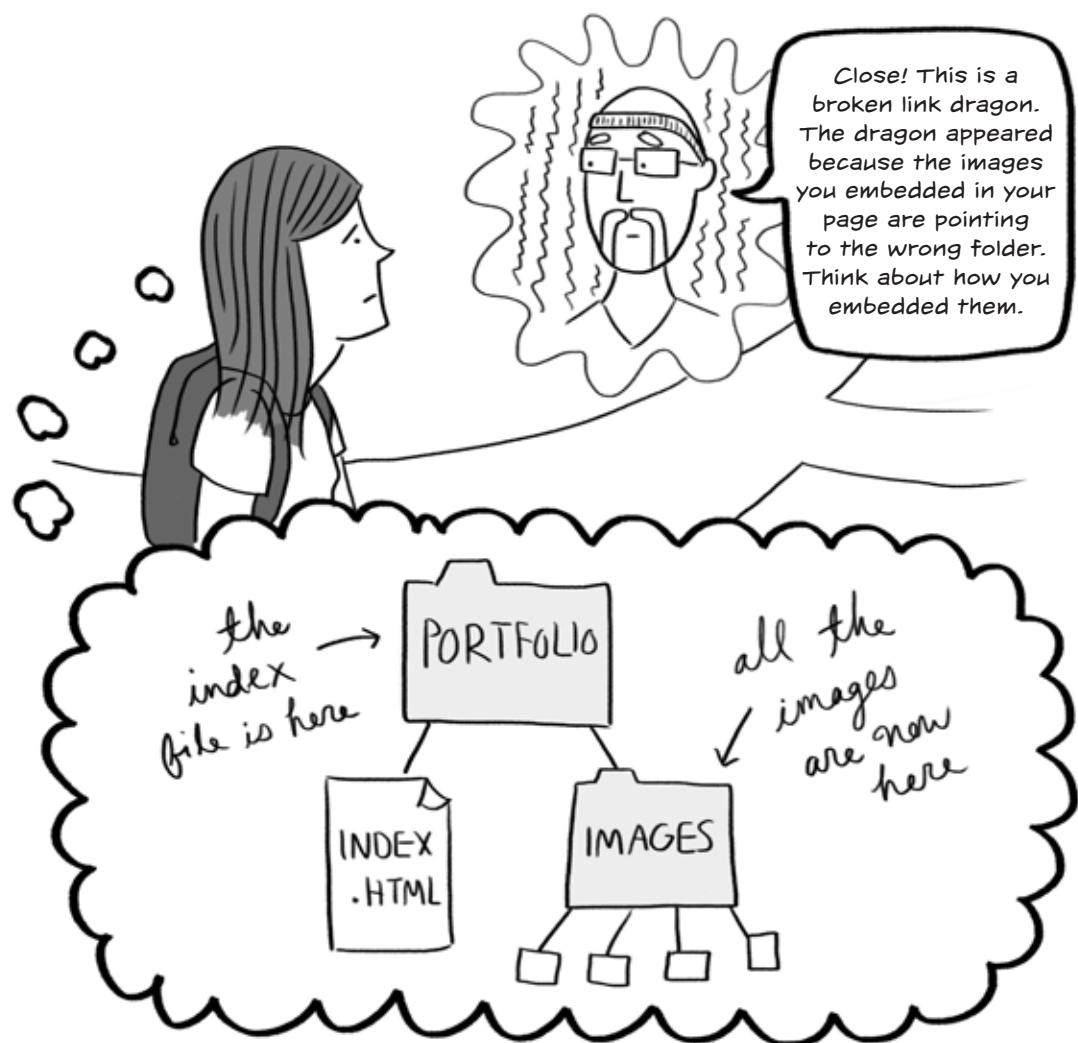




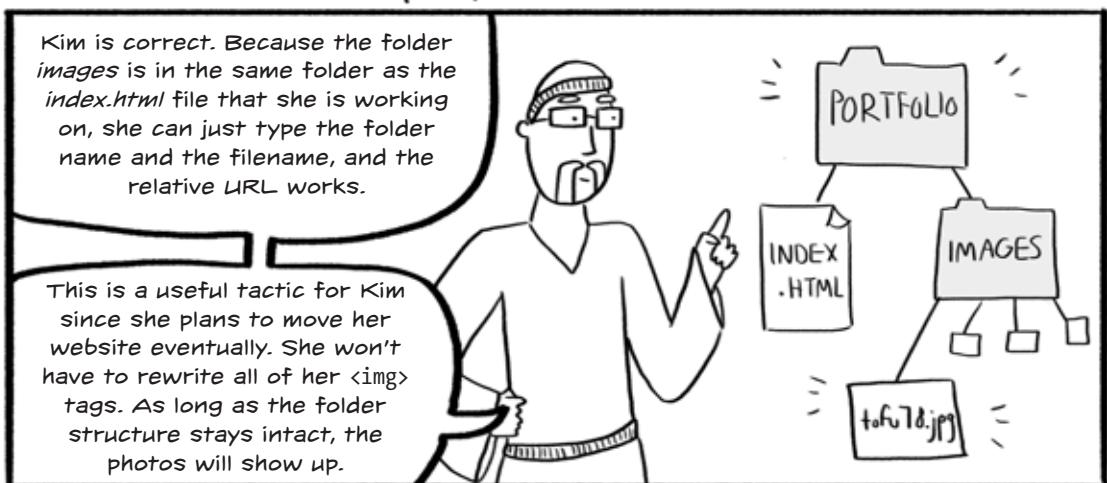
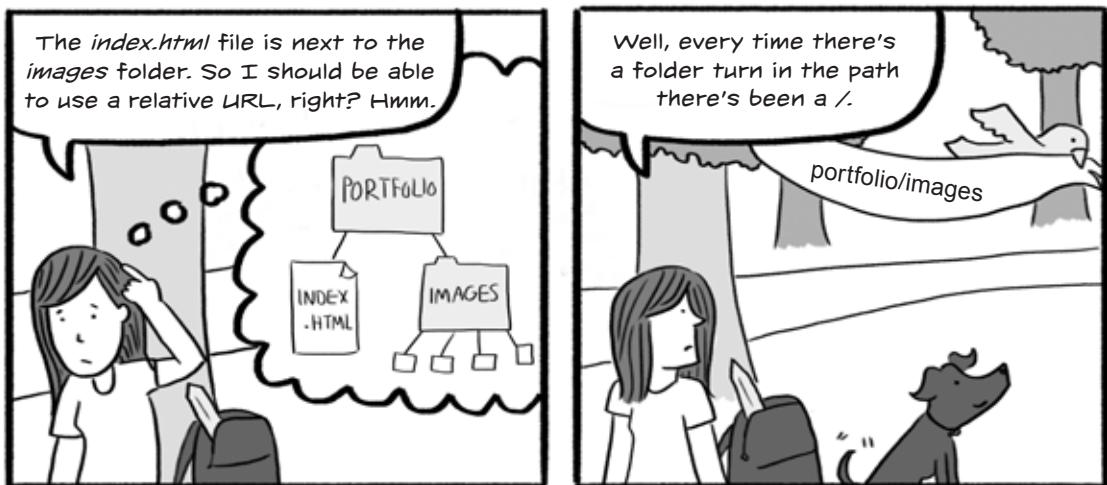


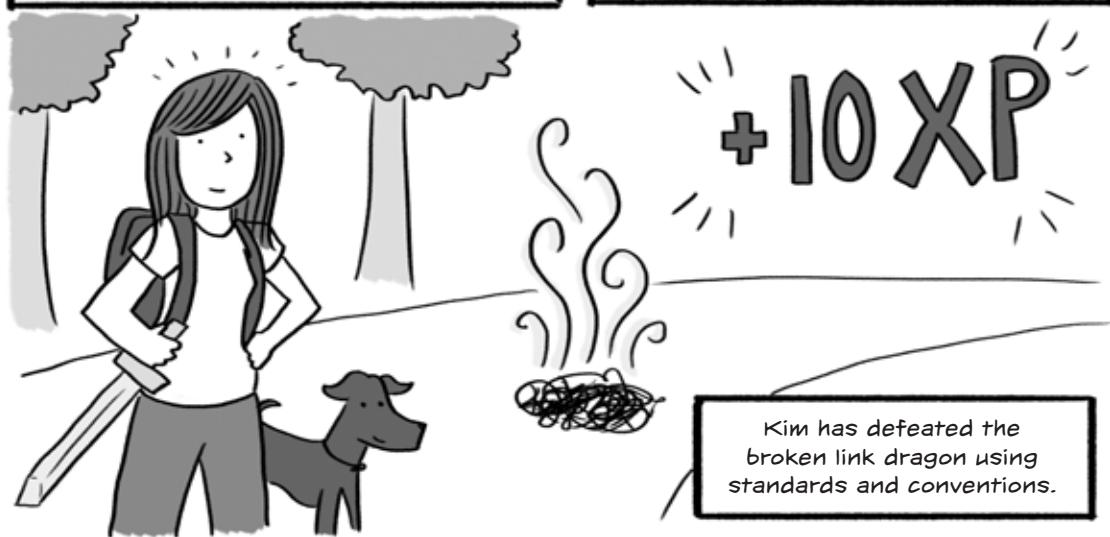
Kim's logic is sound. It's a good idea to keep images organized into a folder or two. But Kim already has `` tags on her page. What will happen when she moves the images into another folder?











Playing with HTML

Building a website doesn't have to be complicated, but it does require some forethought. Even though HTML was new to Kim, she was able to use her plan to avoid errors. The journey of building a website starts with a single web page, and all web pages use HTML.

But what is HTML? *HyperText Markup Language* is the foundational language of the World Wide Web. An HTML document is text, which means you can often open it and read large sections of it without having any coding knowledge. The markup part appears in angle brackets (<>), which are interpreted by a web browser. When a web browser sees an HTML bracket within a page, it recognizes the value of the bracket and changes the text that follows according to a set of rules.

Once you've chosen a code editor, building an HTML page simply requires some common sense and memorization. Let's use some basic tags to start building a web page. Open your text editor and follow along.

Getting Started

All web pages start with a document declaration called a DOCTYPE. This tells the web browser which version of HTML you are using so that it knows which set of rules to obey. In this book we use HTML5. The DOCTYPE for HTML5 is <!DOCTYPE html>, so this should be the very first line on your HTML document. This simple declaration prepares your visitor's web browser so it knows which version of HTML it's about to receive. HTML5 is the fifth iteration of the language! Web designers improve their tools over time, so HTML evolves and tags fall in and out of fashion just as words in English do.

The next bit of HTML you'll write is where the exciting markup really begins. Use the <html></html> tags to begin and end your document. All of the HTML for this page will go between those bracketed tags. Add some text between the <html> tags (this process is called *marking up*), as shown here:

```
<!DOCTYPE html>
<html>
    My first web page! Allllll right!
</html>
```

Remember that HTML is not whitespace dependent. By leaving blank lines between the <html> and </html> tags, we've given ourselves room to write more content for our page. Whitespace (like paragraph returns and tab spaces) will be ignored by the browser, but it makes it easier for us humans to read. You can now save the document and name it *test.html*.

When naming an HTML page, avoid using spaces and special characters (like #, \$, &, and *). If you want to use more than one word in the filename, use a hyphen (-) to separate each word (for example, *my-first-test.html*). HTML filenames are case sensitive, so for consistency's sake we will keep all of our filenames lowercase.

This page should work in our browser, but it's missing some standard pieces of an HTML document. So let's add some more tags to build the basic outline of our page.

Between `<html>` and `</html>`, add the following tags with a line space between them: `<head></head>` and `<body></body>`. Place the opening `<body>` tag above your sentences, “My first web page! Allllll right!” and the closing tag `</body>` below them. These add the `head` and `body` elements to your HTML page—the body of the document is where all the content is displayed, and the head contains information about your page (see “Adding a Head to Your Document” on page 54). We’ll focus on content for the `body` for now. Your document should now look like this:

```
<!DOCTYPE html>
<html>
  <head>

  </head>
  <body>

    My first web page! Alllllll right!

  </body>
</html>
```

Save your file again, and then try opening `test.html` in a web browser like Chrome. You should see whatever text you added; I see a web page that reads “My first web page! Allllll right!”

This may seem like small potatoes, but if you right-click the page and choose View page source, you should see your handiwork: the HTML that created this web page. When a document’s name ends with `.html`, the browser knows to not show the bracketed HTML tags in the page.

Rename the file to `test.txt`. What do you think will happen if you open this file in your browser? Try it, and you’ll notice that the HTML tags actually appear within the window this time. This is because the filename ends with `.txt`. Your browser assumes the file does not contain any HTML and simply displays all of the contents of the page, including the HTML tags. Naming the file with the `.html` extension is important for the web browser to understand what to do with the page.

Switch the filename back to `test.html` and then reload it using the refresh button in your browser. As you edit this HTML document, you can save and refresh your browser whenever you want to test that the HTML markup you’ve added is working.

Using Basic HTML Tags

Now we’re ready to start adding more content. The first tag we’ll try out is the paragraph tag, `<p>`. Delete your test message, and add `<p>Hello World!</p>` between the `<body>` tags. The `<body>` tag signifies the beginning and ending of the main content area of the page. Any text, including any HTML formatting, placed between the `<body>` and `</body>` tags will appear within the browser window. When you save and then refresh the page, you should see your text but not the `<p>`. Great work!

Now let's add a second paragraph. Try putting `<p>This is a second paragraph.</p>` at the end of that first line. Your file should look like this:

```
<!DOCTYPE html>
<html>
  <head>
    </head>
  <body>
    <p>Hello World!</p><p>This is a second paragraph.</p>
  </body>
</html>
```

When you refresh the page in your web browser, you should see that the paragraphs are separated by a blank space, as shown in Figure 2-1.

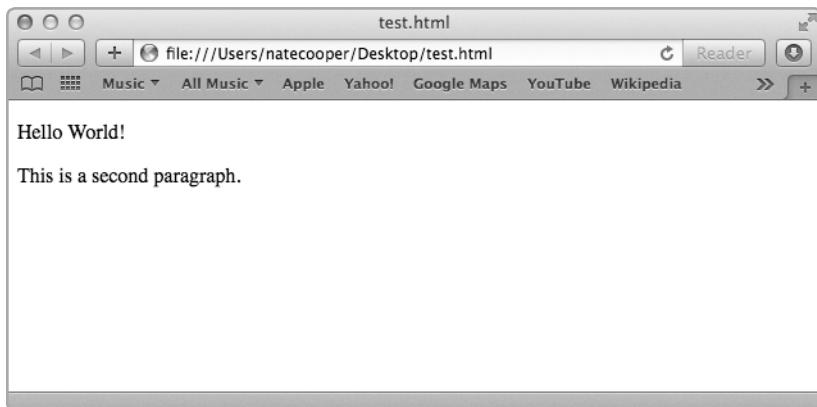


Figure 2-1: This is what your page should look like in a web browser.

Why are the paragraphs separated even though in the HTML code they are on the same line? Remember that HTML doesn't care about whitespace, so the `<p>` tag is what decides where the paragraph goes, not an actual line break.

Although we don't really need returns in our HTML, it is still handy for readability to have a "real" line break in our code. Try writing your HTML document this way:

```
<!DOCTYPE html>
<html>
  <head>
    </head>
  <body>
    <p>Hello World!</p>
    <p>This is a second paragraph.</p>
  </body>
</html>
```

You might notice that I'm indenting my lines. Indents are not recognized or required by HTML; they are there purely for readability. You will often see code written like this; it's an example of a *convention* of HTML. It makes our HTML easier for others to read and helps us ensure that we close all of our tags properly.

Problems can occur if you do not properly close markup in your code. We will see an example of a common mistake after we learn our next two tags. Try applying the `` tag and `` tag to some new sentences in the second paragraph, shown here in bold:

```
<!DOCTYPE html>
<html>
  <head>
    </head>
  <body>
    <p>Hello World!</p>
    <p>This is a second paragraph. <strong>This is bold text.</strong>
      <em>This is italic.</em></p>
  </body>
</html>
```

Now save the file and refresh your browser. You should see that the sentence **This is bold text.** appears in boldface in the web browser. The `` tag is typically used to set text in boldface. The sentence *This is italic.* should appear in italic. The `` tag (short for *emphasis*) typically sets your text in italic.

What happens if you don't properly close your tags? Try this: Delete `` so that the tag isn't closed. Remember to save and refresh your browser. Now the entire rest of the page is bold. This demonstrates why it's important to properly close all of your tags. When your tags aren't closed, the web browser doesn't know when the markup ends, so it continues until the page ends. In the case of a `` tag, this is pretty inconvenient because it makes all of your paragraphs bold. In a worst-case scenario, forgetting the closing tag might make your content disappear completely from the page. Get in the habit of closing each HTML tag and always double-check before you save your page. Make sure you put back in that `` tag before we move on!

Some tags are *self-closing*. This means that they stand alone without having to wrap themselves around text—for example, `
`. Try putting the `
` tag between `This is bold text.` and `This is italic.`:

```
<!DOCTYPE html>
<html>
  <head>
    </head>
  <body>
    <p>Hello World!</p>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
      <em>This is italic.</em></p>
  </body>
</html>
```

When you save and refresh your browser, you should see a line break. A line break puts the text on a separate line, like `<p>` but with a smaller gap. This is sometimes called a *soft return* in word processors.

Paragraphs and returns aren't the only dividers within the body of a page. There's also the heading tag. HTML offers six types of headings, with `<h1>` being the most important and `<h6>` being the least important. Generally, headings are used to define sections on a page, just like section headings in a book or an article. Let's change the paragraph `<p>Hello World!</p>` to an `<h1>`:

```
<!DOCTYPE html>
<html>
<head>

</head>
<body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
        <em>This is italic.</em></p>
</body>
</html>
```

When you save your page and reload it in your web browser, you should see that the `<h1>` tag has made the text *Hello World!* appear larger on the screen. If we had a longer document, we might have subheadings that use smaller heading tags like `<h2></h2>` or `<h3></h3>`. Remember that headings go all the way from `<h1>` to `<h6>`, so you can use these tags to visually divide sections of your page.

Now we're ready to make links. This tag might seem a little tricky at first. You can think of a link as an *anchor* that has a *reference*. The tag looks like this:

The diagram shows the structure of an anchor tag (`<a>`). It consists of four parts: an opening tag (``), a URL (`http://website.com`), link text (`Visitors can click on me!`), and a closing tag (``). Arrows point from each label to its corresponding part of the tag.

Opening tag URL Link text Closing tag

The `a` stands for anchor and the `href` stands for hyperlink reference. Notice the angle brackets on either end; that whole thing is the opening tag! The `href` defines the website address, or URL, that will be loaded when someone clicks the link. Between this opening and the closing tag ``, we have the “clickable” link text.

Try it out with any URL:

```
<!DOCTYPE html>
<html>
<head>

</head>
<body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
        <em>This is italic.</em></p>
```

```
<p><a href="http://natecooper.co">Click here!</a></p>
</body>
</html>
```

You should notice when you view the page in your browser that the words *Click here* are blue and underlined, indicating they are a hyperlink. If you click the link, it will take you to my website. Every page on the Web has a corresponding website address (URL) that you can use to link to it directly. You can also link to other pages on your own website.

Knowing how to create paragraphs, headings, italicized and boldface text, and links is invaluable, so take some time to memorize these tags and how they work. Almost every web page in existence will use them. Even when you use more sophisticated systems like WordPress, knowing some basic HTML markup will serve you well.

Embedding Images into Your Web Page

Now let's try to embed an image. There are several ways to do so, as Kim found out while building her portfolio, so we'll want to be careful not to run into any dragons. First, you'll need an image formatted as JPG, GIF, or PNG. You can use the `` tag to embed an image into your page. Like the `
` tag, `` doesn't need a closing tag, but it can be a bit tricky because it relies on knowing the exact location of the image file to work properly. A typical image tag looks like this:

```

```

It's the `img src="path-to-image/image.jpg"` part that can be tricky. For an example of an image location, let's take a look at an image hosted on my desktop. If I navigate to this image, I can find the image location in the address bar of my browser, as shown in Figure 2-2.

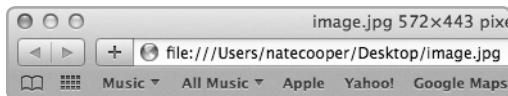


Figure 2-2: Finding an image's location

The exact address of an image is called the *absolute path* or *absolute URL*. For us, embedding an image using the absolute path isn't ideal, because we're building this web page "locally" (i.e., on your computer). We'll use a *relative path* instead; we'll keep it simple and leave the image in the same folder as our HTML document, which makes the path very easy.

Move your image into the same folder as your web page and rename it *image.jpg* (or *photo.gif* or *photo.png*, depending on your file format). As with our HTML pages, avoid using spaces and uppercase in the name. If the image is in the same folder as your *test.html* page, you can now embed the image using this code:

```

```

Your document should look like this:

```
<!DOCTYPE html>
<html>
  <head>

  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
      <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
  </body>
</html>
```

Save and refresh your browser. Is your image there? If not, make sure that you used the exact name of the image and that it's in the same folder as your *test.html* file (in our example, the image is on the desktop).

If you are building a portfolio like Kim and you'd like to put all of your images into a single folder, go back to the folder containing your *test.html* file and create a new folder called *images*. Now move your *image.jpg* file into that folder. As a test, go back and reload your page in the web browser without making any changes to your code. You should get a **broken link** error message, which means the image is no longer visible. To fix the error, we'll need to correct the path in the HTML code. Find your **** tag:

```

```

and change the file location to this:

```

```

The / represents moving to one folder (or directory) within the current folder. So, for example, if you moved your photo to a folder called *black-and-white*, which was inside a folder called *portfolio*, which was inside a folder called *images*, the path in your HTML code would look like this: *images/portfolio/black-and-white/image.jpg*.

The advantage of using relative paths is that, unlike with absolute paths, there is nothing tying your HTML code to a specific location. So, if you move the entire site (in this case, the *test.html* page and the *images* folder) to a new location or host, the **** paths will still work. If you were using an absolute path instead, even when the files were moved the paths in the code would point to the old address and you'd see a broken image icon.

There's one other way to indicate a relative path that is specific to being on a server: starting the path with a /. When you start with a /, the browser will go all the way to the first folder on the host. This is advantageous if you have an image, like a logo, that you want to use on every page. You might write **** in your code, for example. This would look for the *logo.gif* file at the *root* of the host—the first folder on your host into which you can place files. Again, this helps if you ever change or move your site.

Adding a Head to Your Document

If you've followed along so far, your HTML page should look like this:

```
<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
       <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
  </body>
</html>
```

Notice how there is a section at the top that is currently empty?

```
<head>
</head>
```

So far we've avoided putting anything in the `<head>` section of the document because we've been working only on things that are visible in the main window of the web browser.

The `<body>` section of the page contains content that goes into the main window of the web browser. So far, all of the HTML we've seen lives inside these tags. But the `<title>` is one example of a tag that lives in the `<head>` of your document.

Anything we put into the `<head>` of an HTML document will either go outside the main window area or will be completely invisible. Try adding `<title>My Web Page</title>` into the `<head>` of your document:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
       <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
  </body>
</html>
```

Save and reload your page. Did you catch what changed? Depending on your web browser, it might be difficult to see the difference, but you should now see the title at the top of the window (see Figure 2-3) or as the name of your tab.

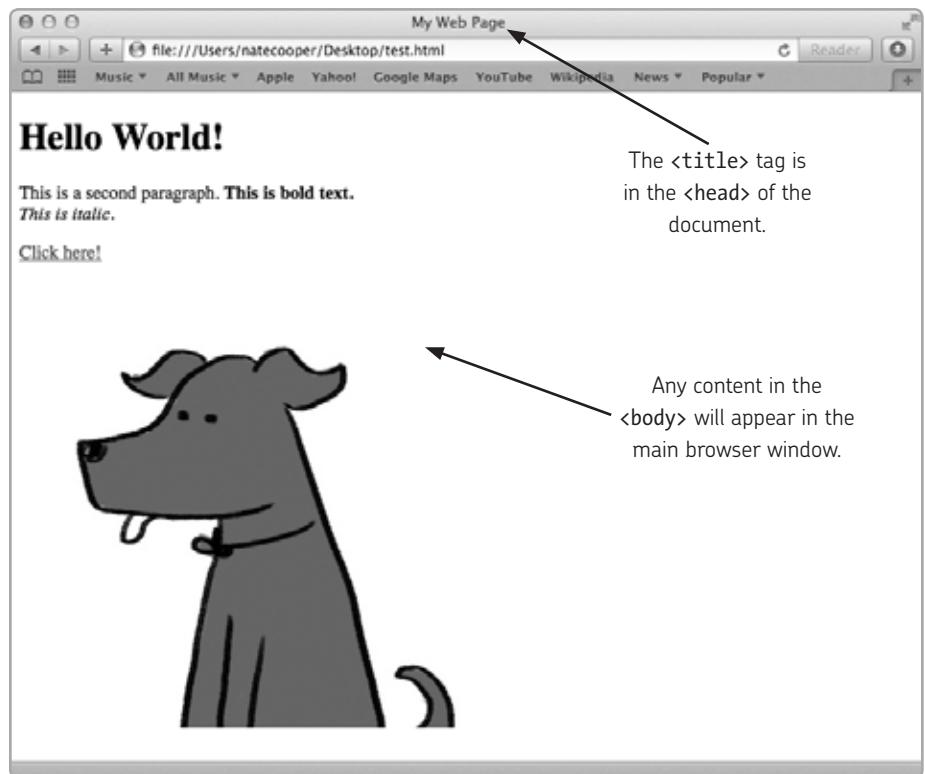


Figure 2-3: Anything you put between the <title> tags appears at the top of the browser window.

What else goes in the <head>? In the course of learning to build a website, you may have heard the term *metadata*. Metadata just means information about a document, as opposed to content within the document. The <title> is a kind of metadata (namely, the title of your web page). The head of an HTML document can contain <meta> tags that we can use to further describe our document. These descriptions don't show up on the page but are used by search engines to learn more about your pages. For example, you can use <meta name="description" content="description goes here"> to write a brief description of your page that will show up in search results. Try adding it so that your code looks like this:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
    <meta name="description" content="A test page created while learning to
      code using the book Build Your Own Website.">
  </head>
```

```

<body>
  <h1>Hello World!</h1>
  <p>This is a second paragraph. <strong>This is bold text.</strong><br>
  <em>This is italic.</em></p>
  <p><a href="http://natecooper.co">Click here!</a></p>
  
</body>
</html>

```

If you save and reload the page, you'll notice that the description doesn't show up anywhere on the page. That's because this metadata is primarily for the benefit of external applications. For example, search engines like Google may use the meta description underneath the link to your site in search results (see Figure 2-4).

Figure 2-4: The meta description is what shows up beneath your page in search results.

Even though the `<meta>` tags are sometimes used by search engines, it's important to not assume that they can magically increase your search ranking. In the past, `<meta>` tags mattered quite a lot for search engine ranking, but these days they are no longer a major contributing factor. That said, adding a `<meta name="description">` to your pages is considered a good practice.

Now that we have a complete and functional web page, we're ready for CSS. Every web page should have the basic structure we've created here, with a `<head>` section containing metadata and information that's not visible on a page, and a `<body>` section containing information that appears within the main browser window. You might want to memorize some common HTML tags that we used in this chapter. Chances are, you'll need them on your journey.

Some Useful HTML Tags

Here is a list of commonly used HTML tags for your reference:

<!DOCTYPE html> This tells the browser which version of HTML you plan to use. This particular DOCTYPE signifies HTML5. It is not an HTML element, but a declaration that should go at the very top of your page before the opening **<html>** tag.

<html></html> Everything contained within these tags will be processed by the browser as HTML. Every HTML document should contain these tags.

<head></head> Everything that is wrapped within will contain metadata that is used by the browser and doesn't show up within the main browser window.

<body></body> Everything that is wrapped within will be visible in the main browser window. Your page's content will go here.

<p></p> Any text contained within these paragraph tags will be considered part of a single paragraph.

**** Text placed between these brackets is important and usually appears larger and with a heavier font weight than the surrounding text.

**** These tags indicate emphasized text. The text contained within these brackets will usually appear in italic.

click here These are link tags. The link name here is what you'd like the link to be labeled—*click here*, for example. Link text is usually underlined and a different color on the page to indicate that it is clickable. You put the link destination between the quotation marks of the **href**. Use the absolute URL to a page to link to it.

<h1></h1>, <h2></h2>, <h3></h3>, <h4></h4>, <h5></h5>, <h6></h6> These tags indicate heading text. Like a paragraph, an HTML heading will divide text from surrounding elements. This means that you cannot have a heading within a paragraph. The number indicates the heading's importance; a low number (**h1**) is more important, and a high number (**h6**) is less important. This importance is usually reflected in the size of the text on the finished page. Headings are often bold and large on the screen. You can use CSS to style headings however you like.

**
** This tag signifies a line break. This is a self-closing tag, meaning there is no text to wrap it around. It can be used within a parent element like a paragraph to move text to another line, usually with less space than is found between two paragraphs.

**** This is a self-closing tag that embeds an image into a page. The **src** can be an absolute or relative path to an image. The **alt** text is a description that is used by search engines to identify what is contained within the image.

<title>My Web Page</title> The **<title>** tag names the HTML document. The title usually shows up at the top of the browser window. Search engines will often use the **<title>** tag to determine what is contained within a page. This tag goes into the **<head>** of your document.

```
<meta name="description" content="a description of your website goes here">
```

This description will be displayed in search results from a search engine like Google.

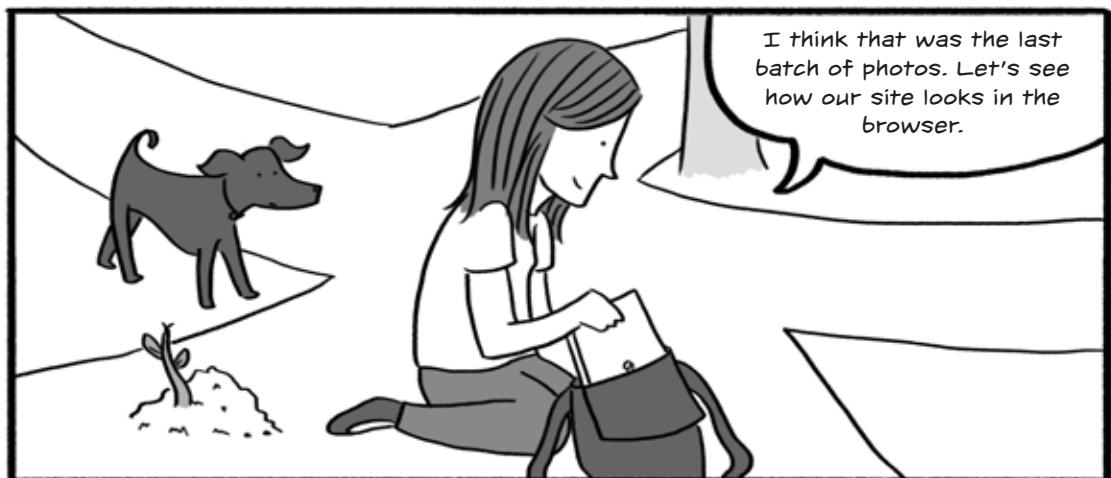
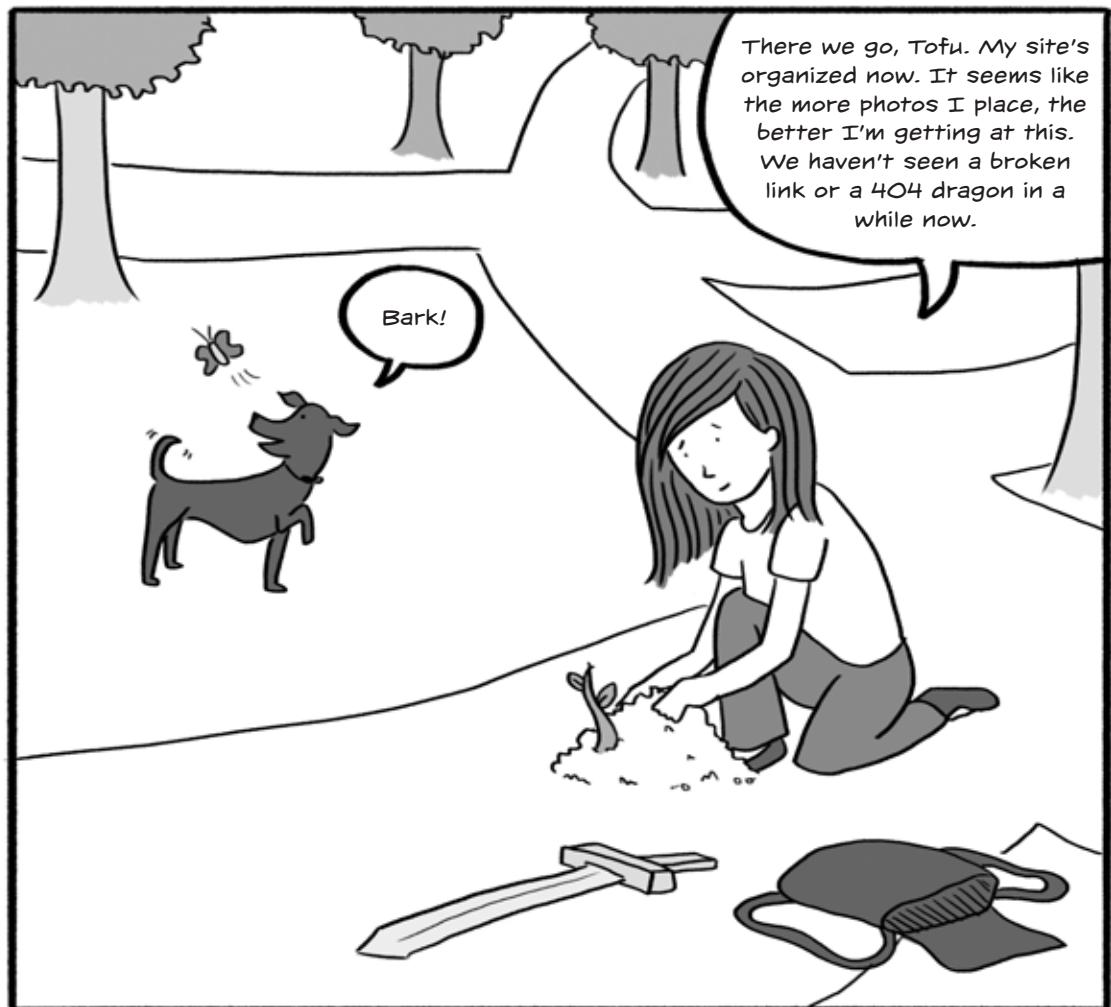
The metadata is not visible to visitors of the site but will be visible in the code. This tag goes into the `<head>` of your document.

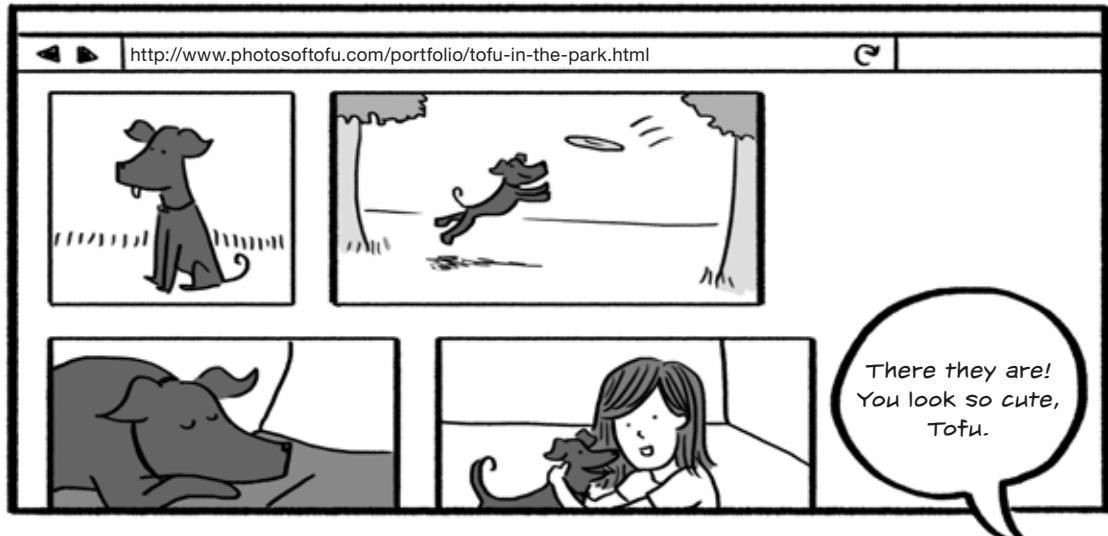
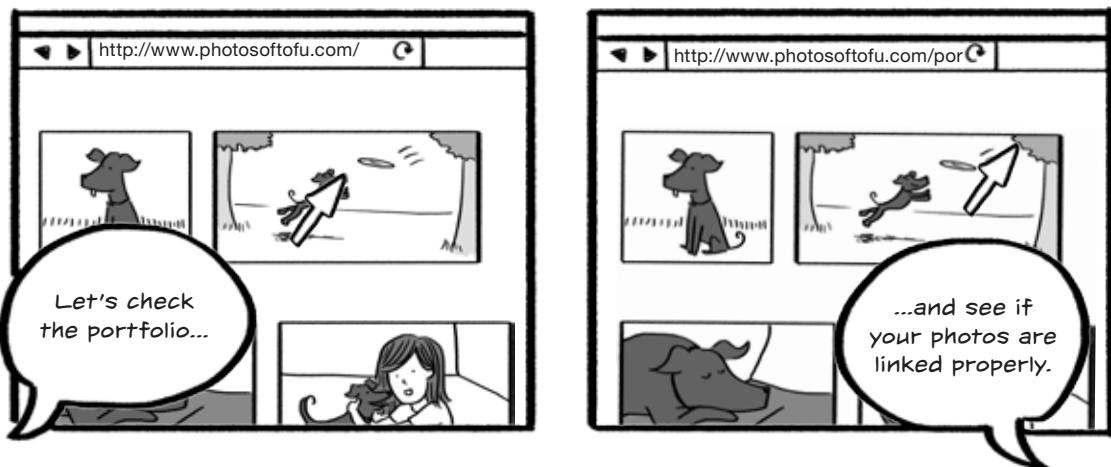
Of course, there are many more tags, but these are the ones you'll probably use most often. With the basics down, you'll have the context to learn more. Now let's get back to Kim's adventure!

3

Kim Makes Things Look Great with CSS

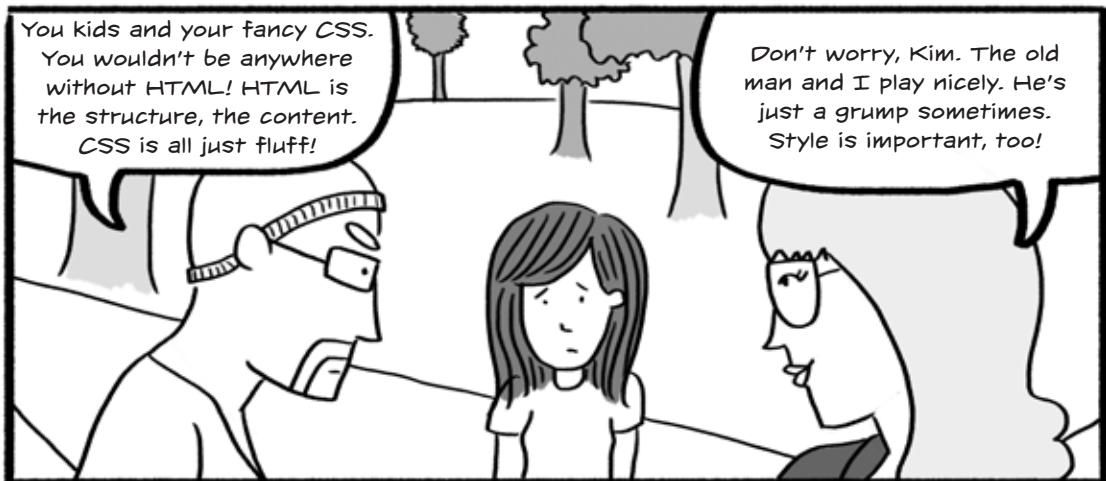




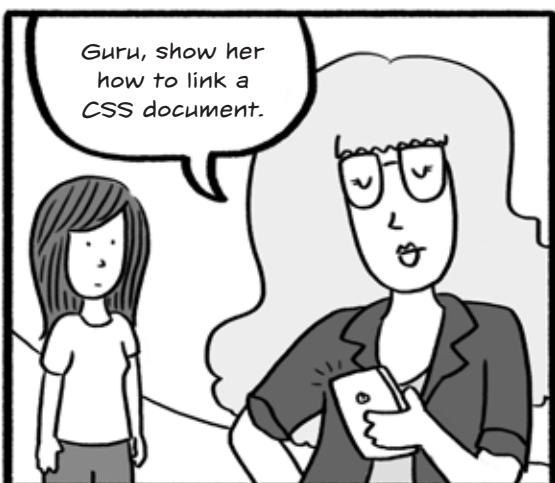
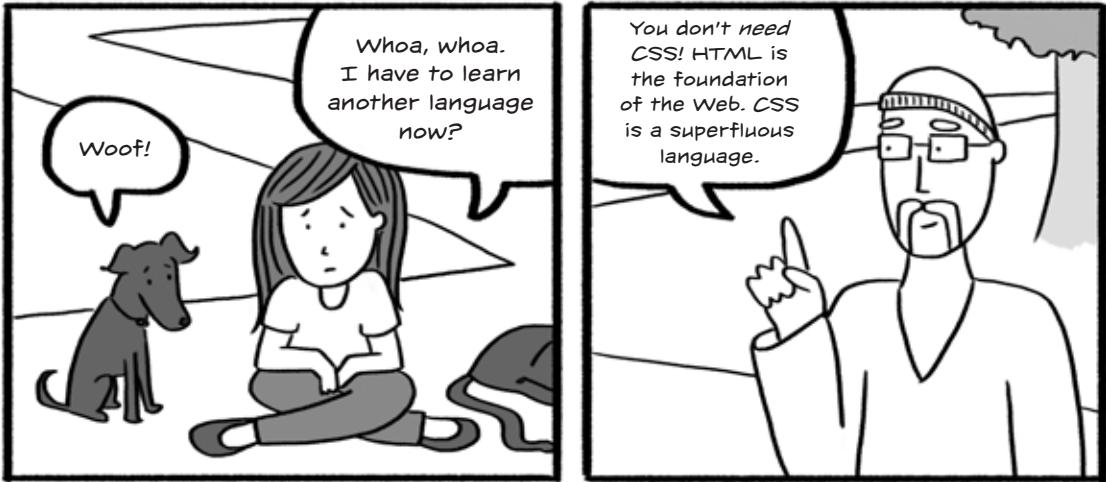


Enter CSS







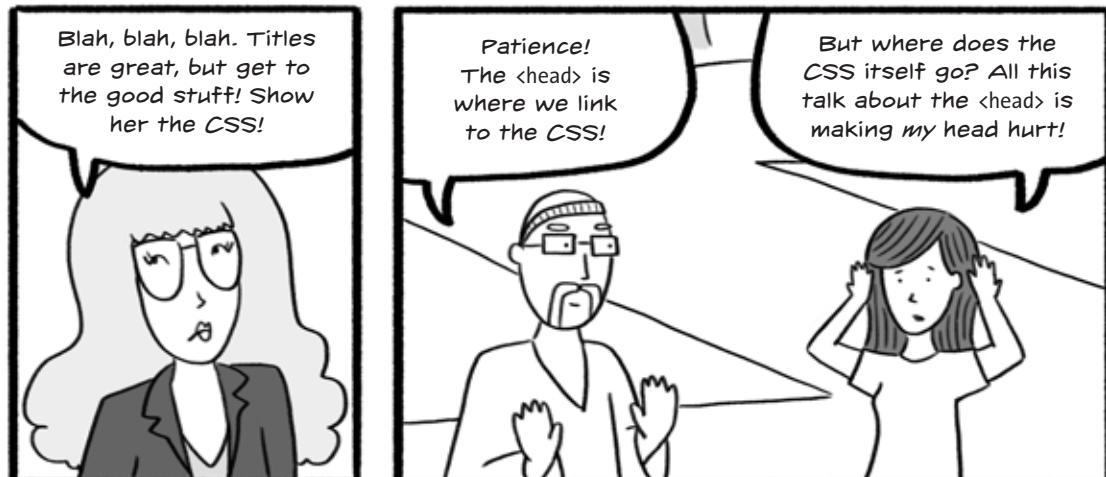
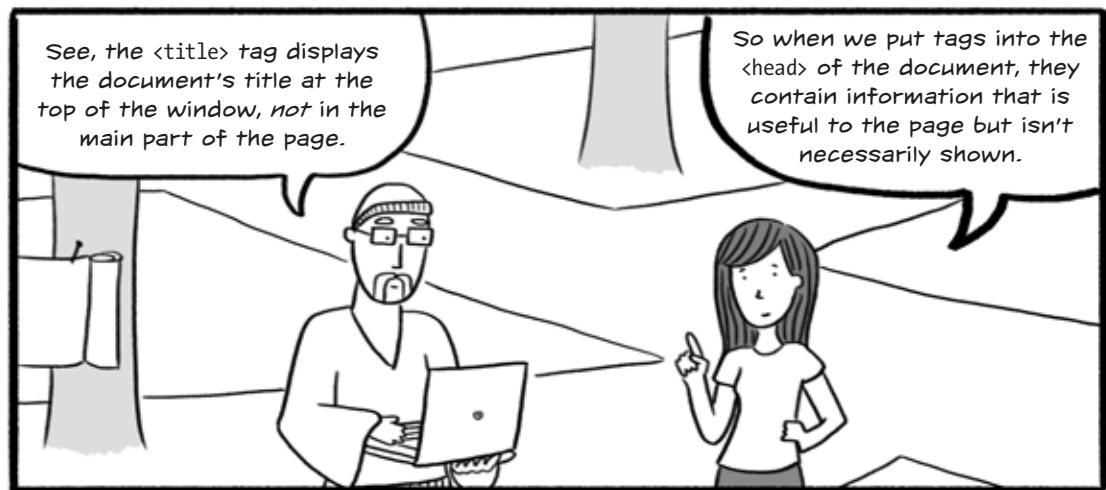


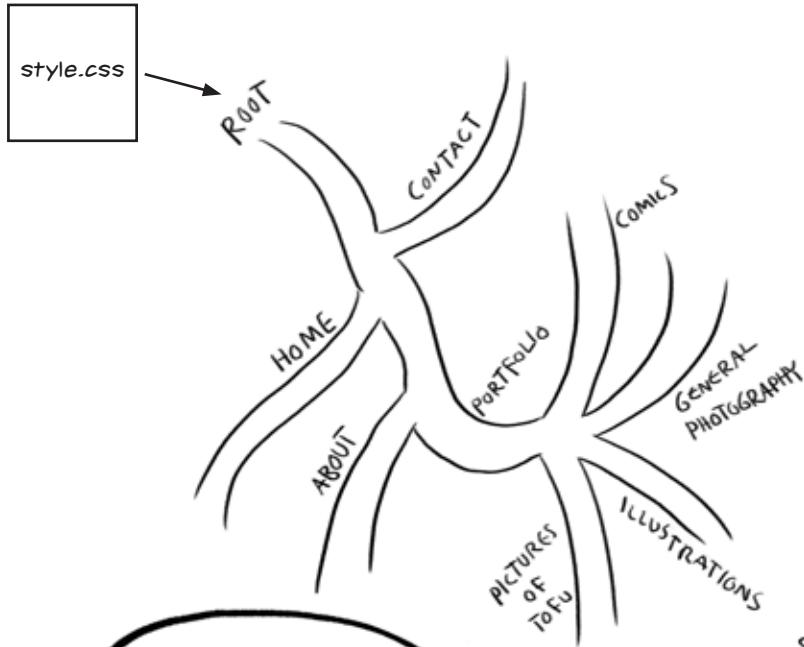
For CSS to work, you'll need to properly link it in the `<head>` of the document. Remember the basic structure of an HTML document:

```
<html>
  <head>
  </head>
  <body>
    <p>This Sunday I took my dog, Tofu, to Central Park.</p>
    <p></p>
    <p>
    ...
  </body>
</html>
```

When we put content into the `<body>` of the page, it shows up in the main window of the web browser. The `<head>` is reserved for stuff that doesn't show up there. A good example is the title of the document.

```
<head>
  <title>Tofu in the Park</title>
</head>
```





CSS is usually contained in a separate file at the root of the site. More complex sites might have several CSS files, but for our purposes we'll just have one file. We can call the file anything we want as long as it ends with `.css`. Let's call it `style.css`.



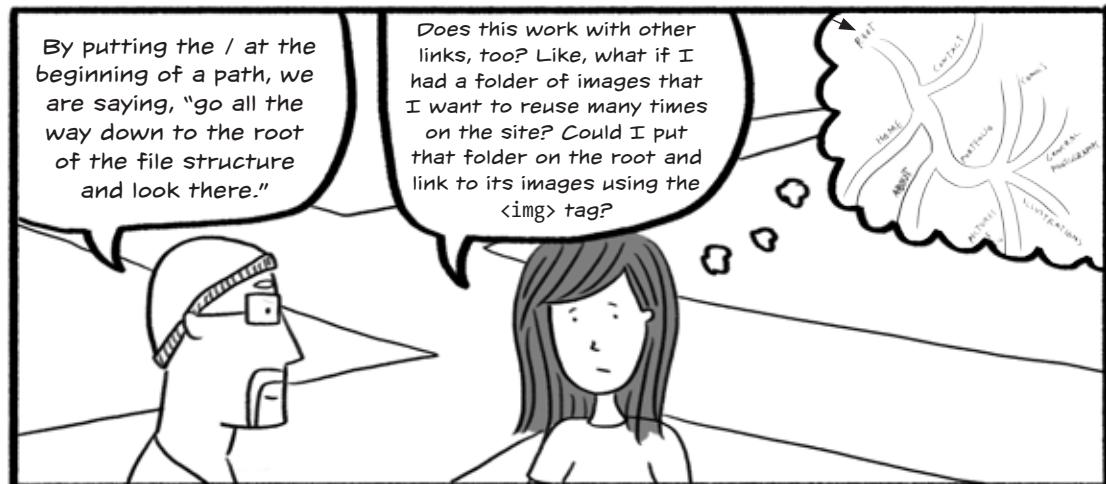
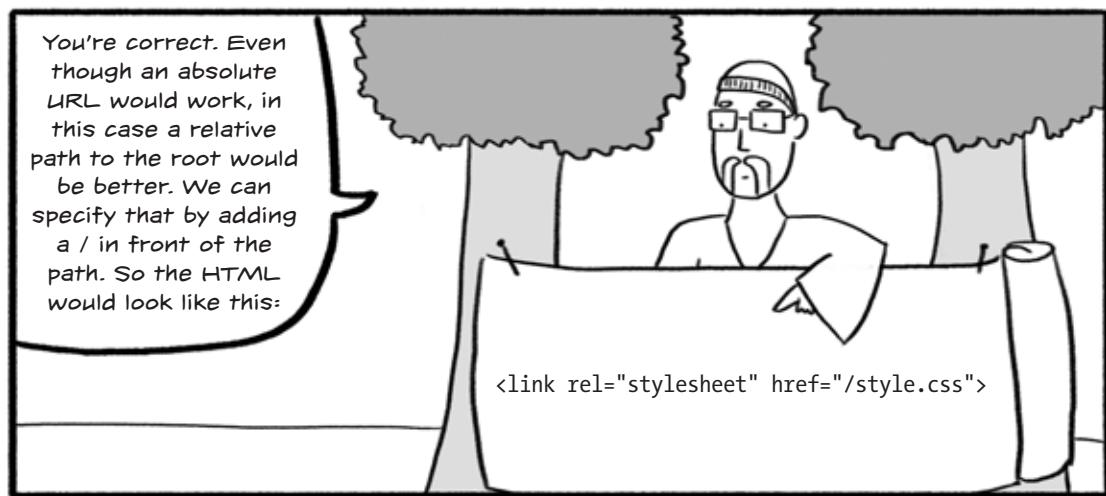
So we store the file at the root, but then what do we do?

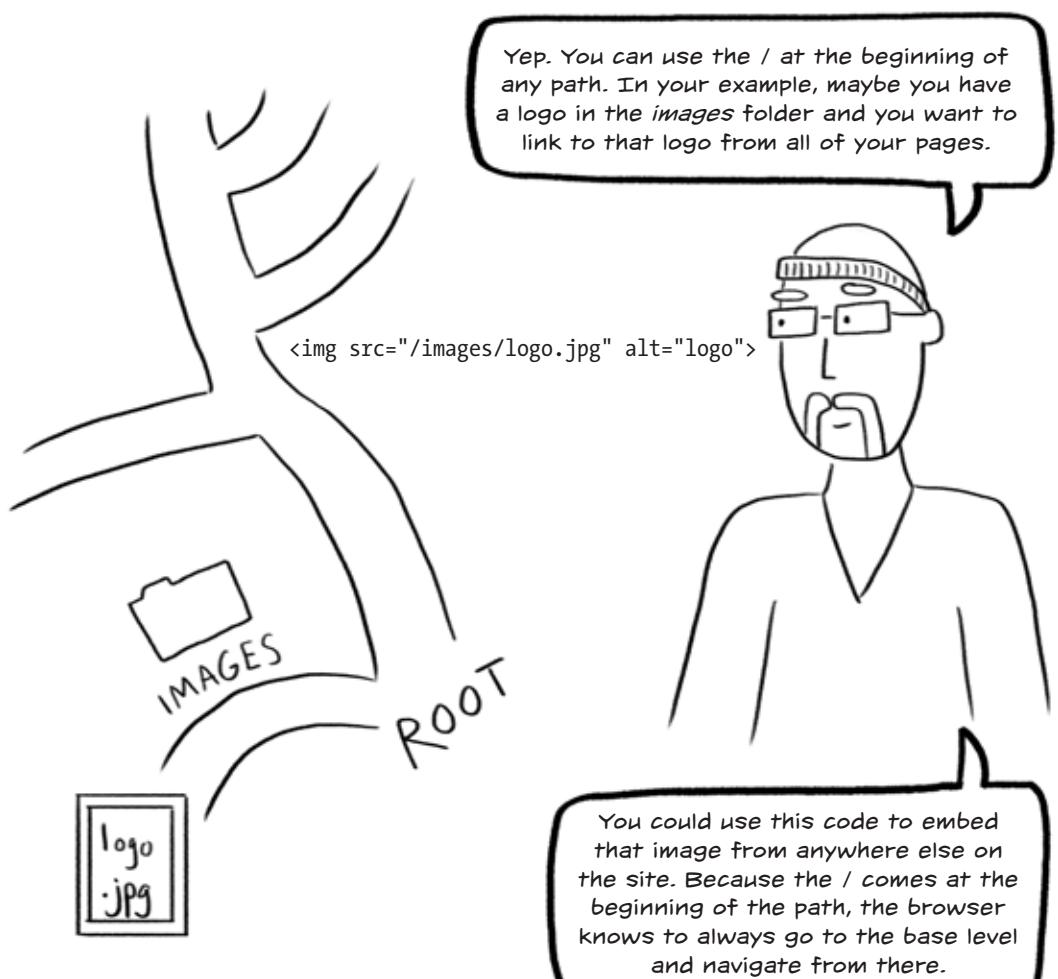
```

<head>
  <title>Tofu in the Park</title>
  <link rel="stylesheet" href="style.css">
<head>

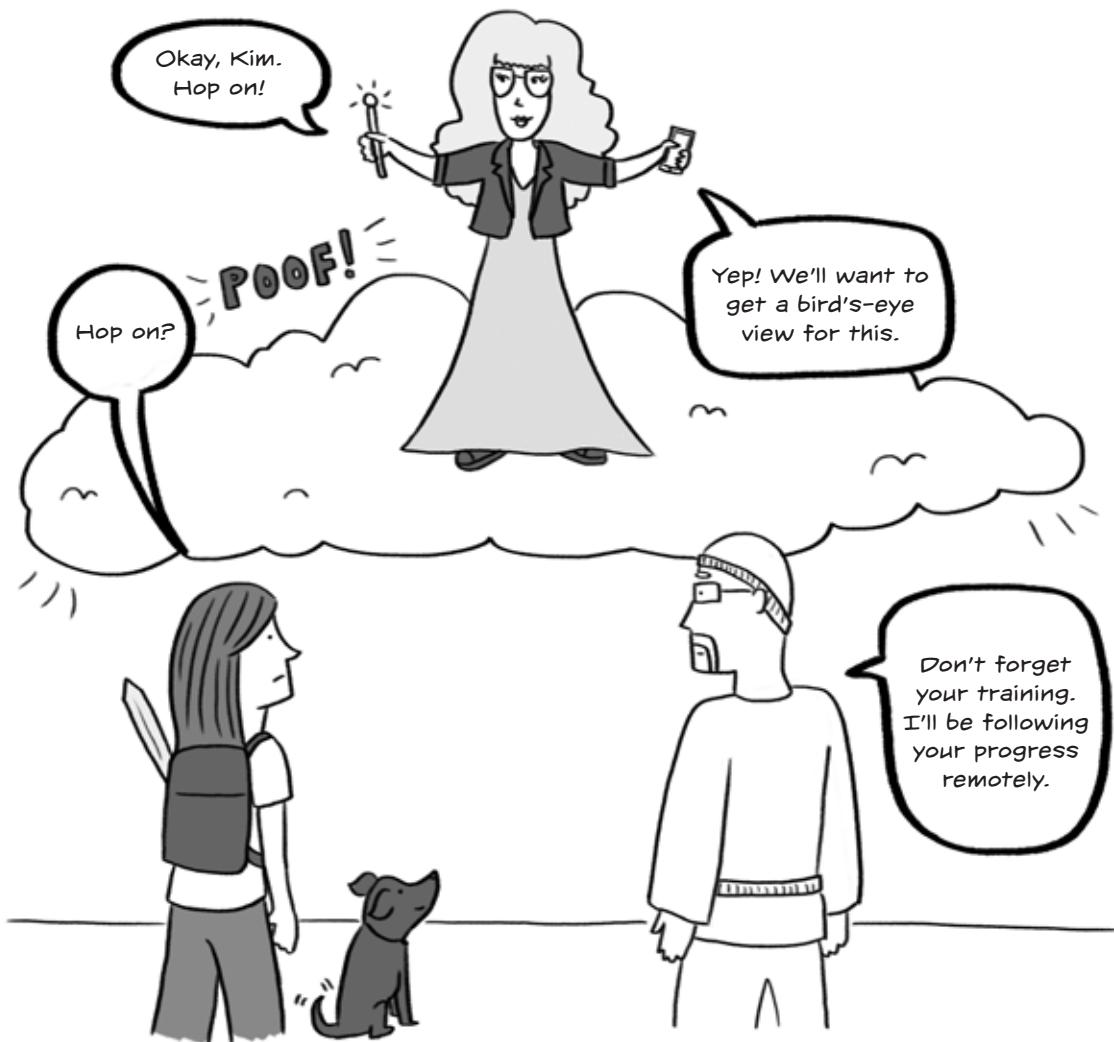
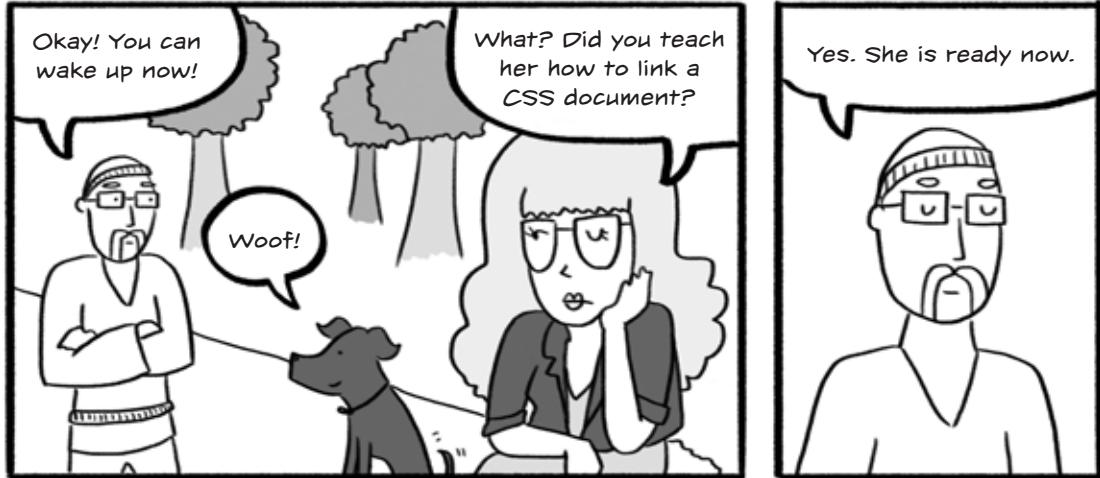
```

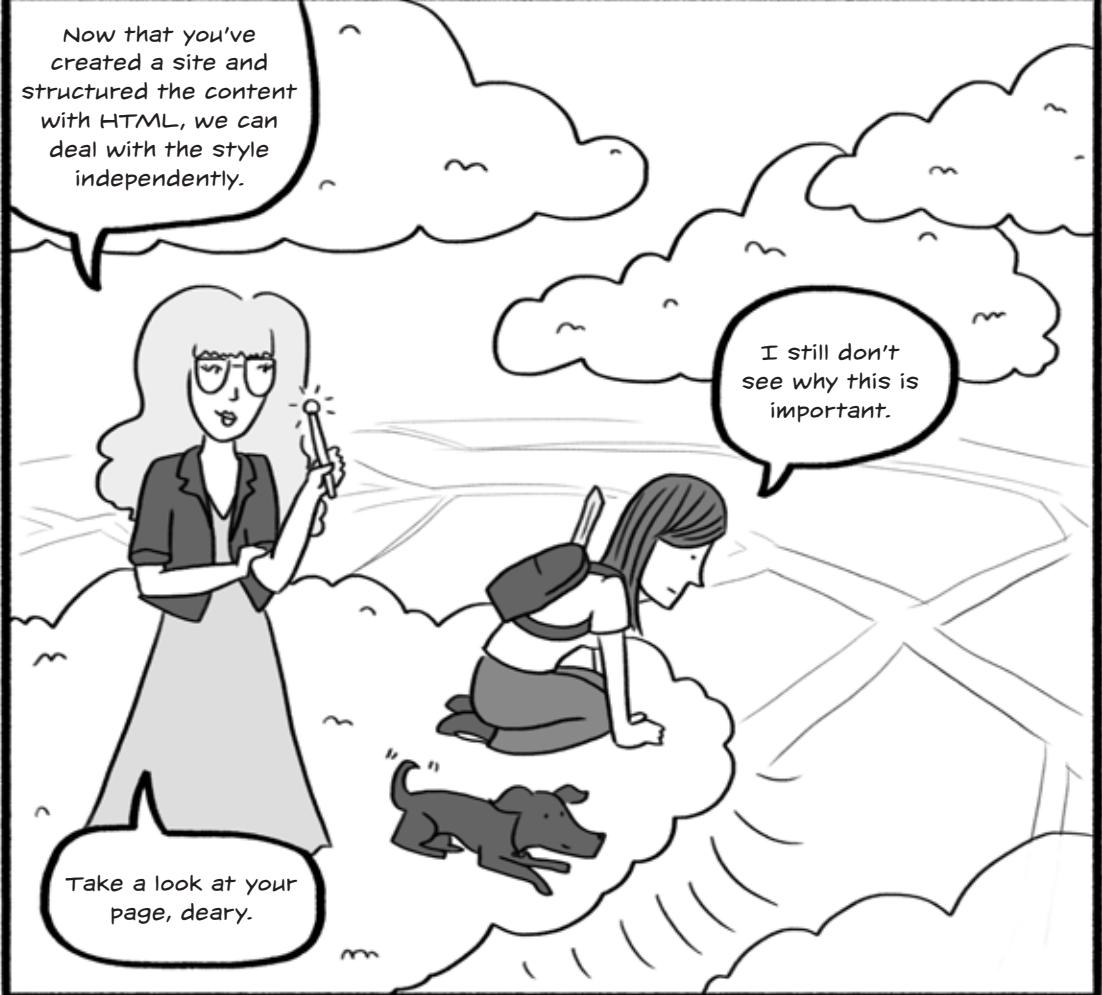
We need to link the CSS file to the HTML files using a bit of HTML in the `<head>` of each document. It looks like this:





Kim Learns Basic CSS





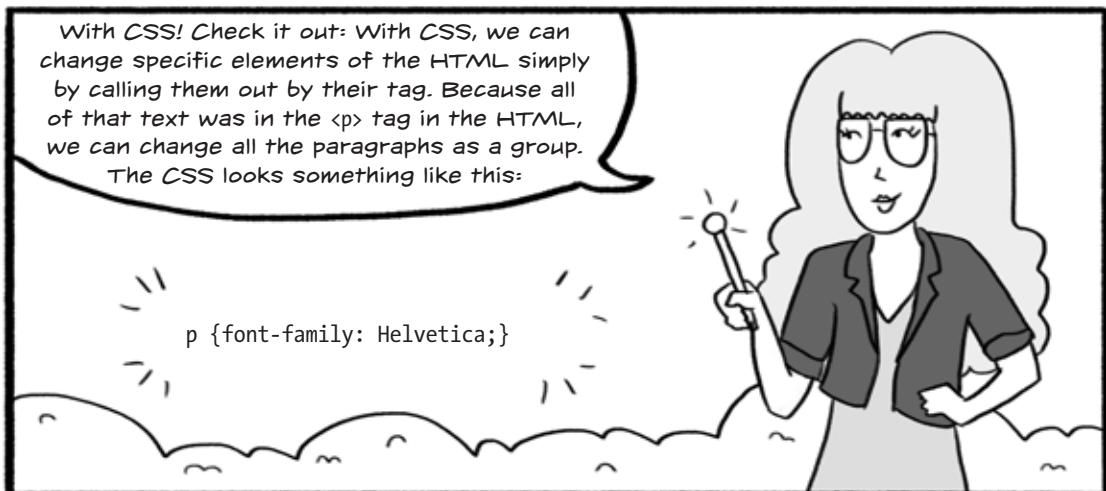
Now that you've created a site and structured the content with HTML, we can deal with the style independently.

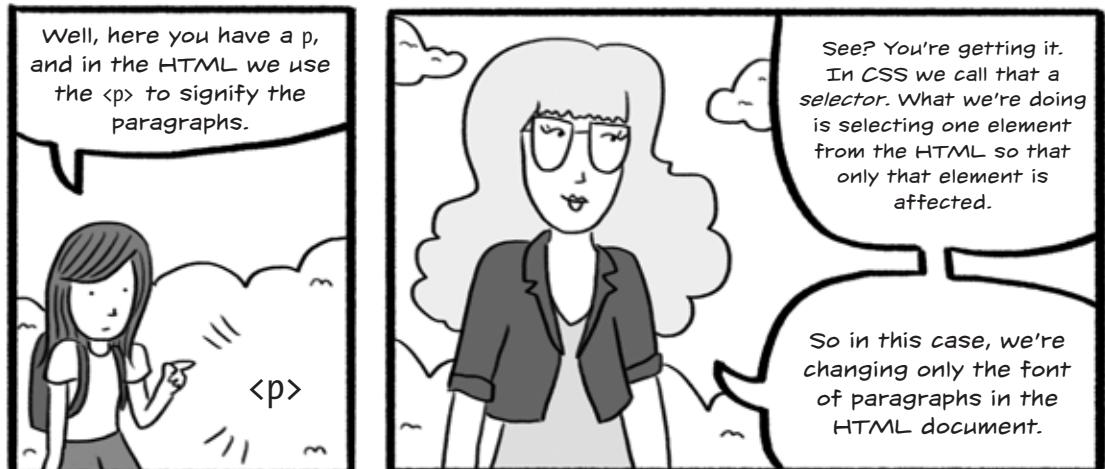
I still don't see why this is important.

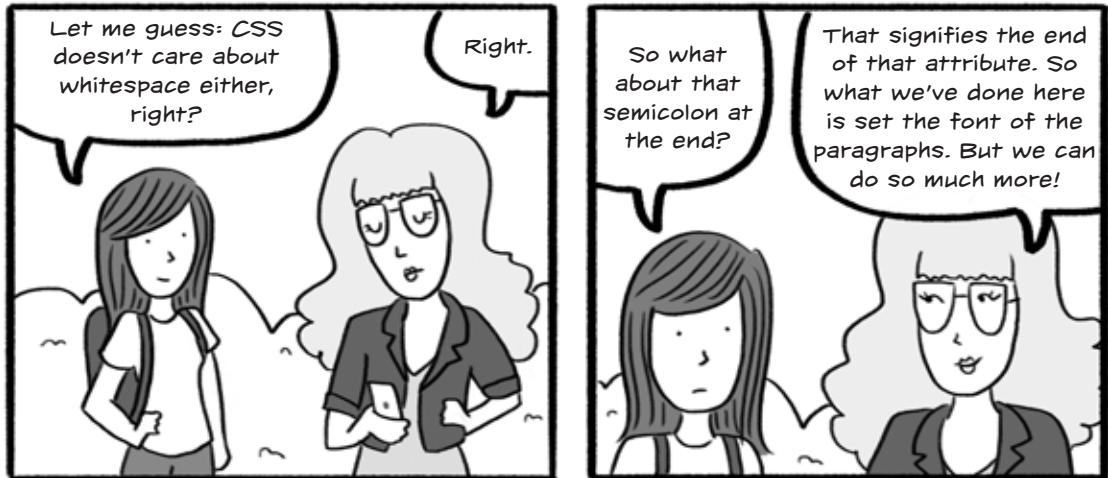
Take a look at your page, deary.



Tofu loves running around outside, especially when the weather's nice.







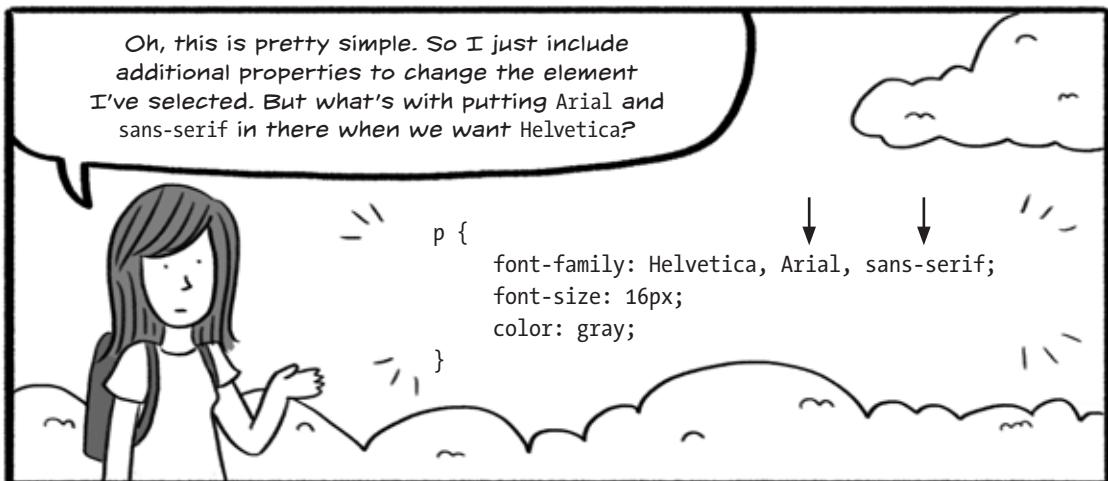
For example,
let's add some other
properties to our
paragraphs:

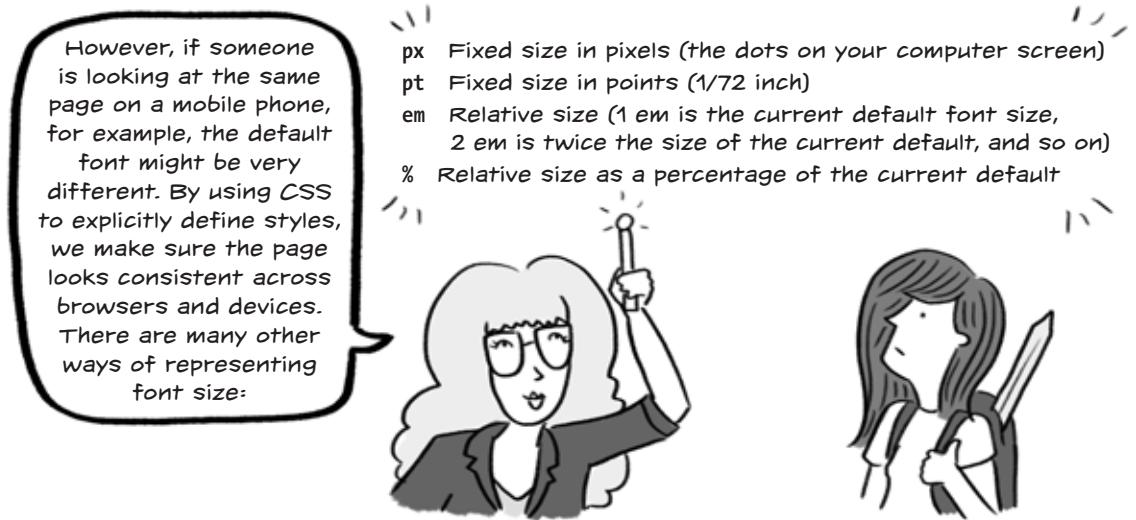
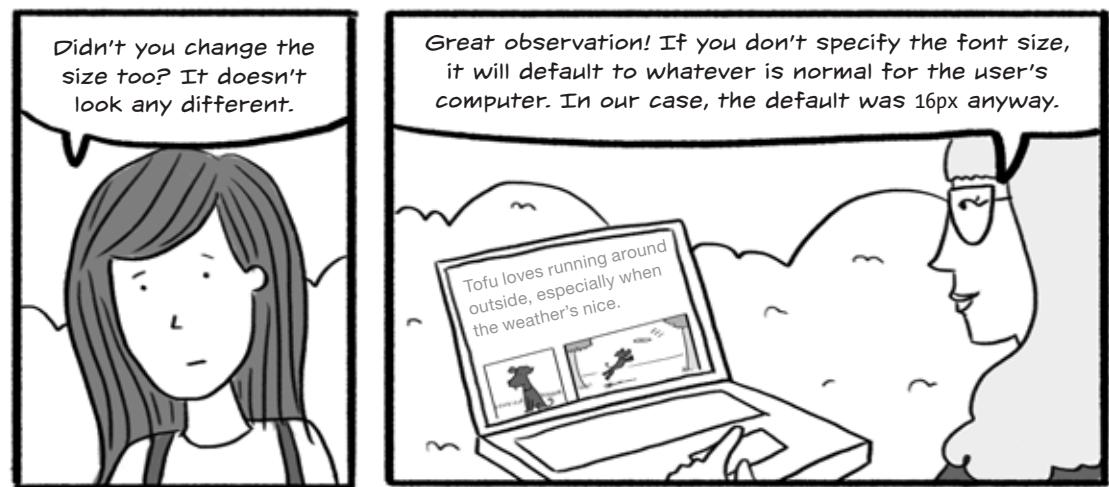
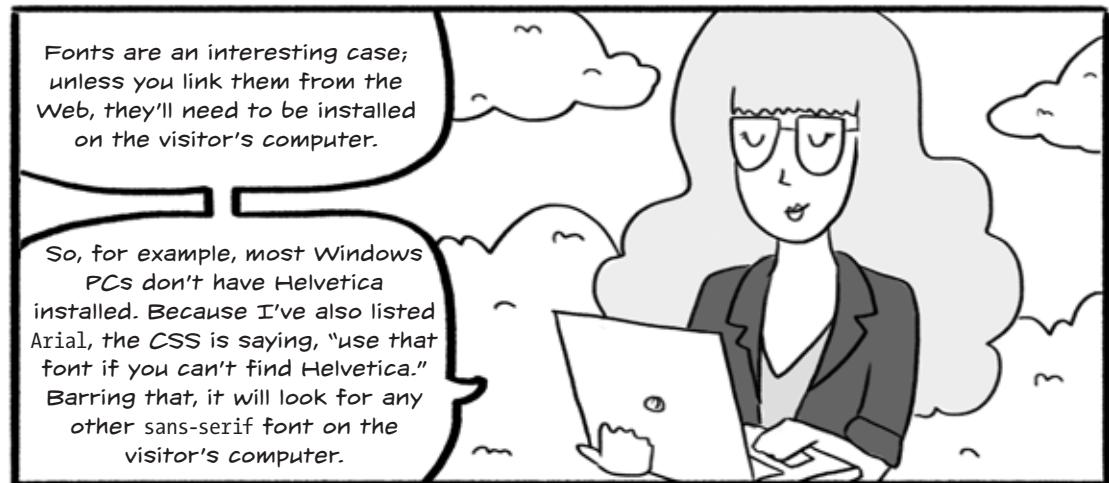
```
p {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: 16px;  
    color: gray;
```



Oh, this is pretty simple. So I just include additional properties to change the element I've selected. But what's with putting Arial and sans-serif in there when we want Helvetica?

```
p {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: 16px;  
    color: gray;
```







em is best for sites that are likely to be viewed on mobile devices, but points and pixels are more intuitive when you're starting out. Practice with each. Start with pixels and then see what it looks like on a phone. Next try using em.

When you use px, the font size stays the same whether the site is displayed on a phone or on a computer. With em, the font size adjusts according to the size of the screen.



Sigh. That sounds like a lot of memorization.



Don't fret, Kim. You'll learn which measurements are appropriate with time. I just want to show you some of the possibilities so that you can get familiar with them. You won't need to know all of these immediately.

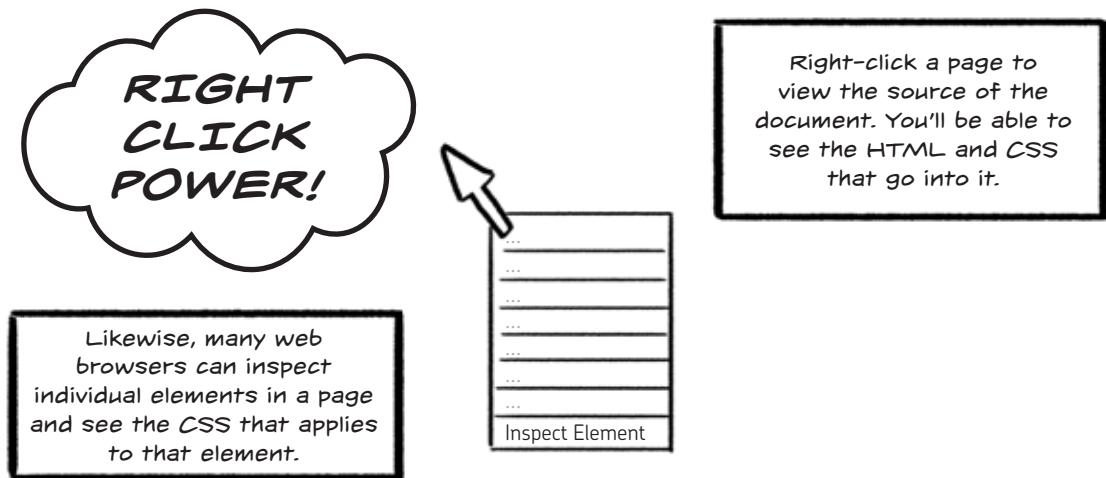
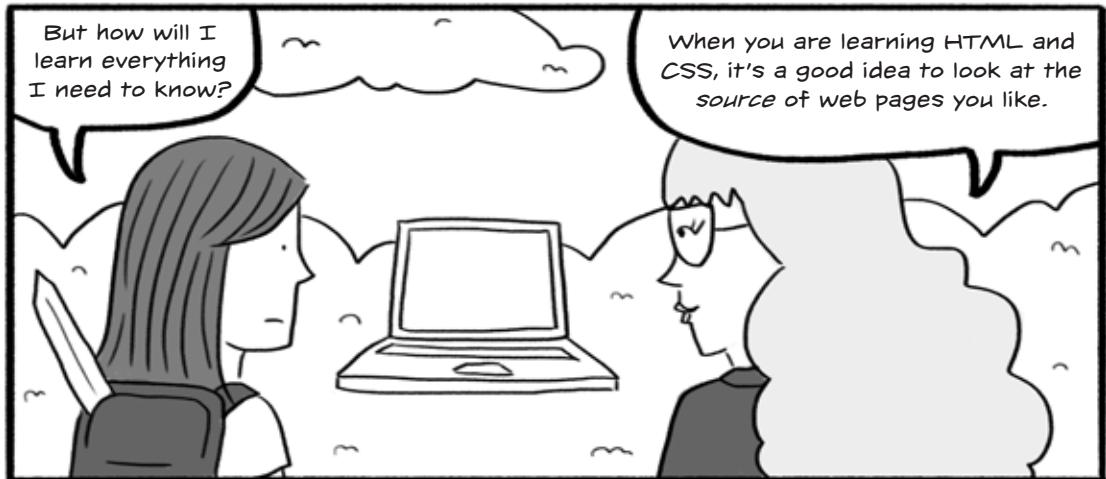


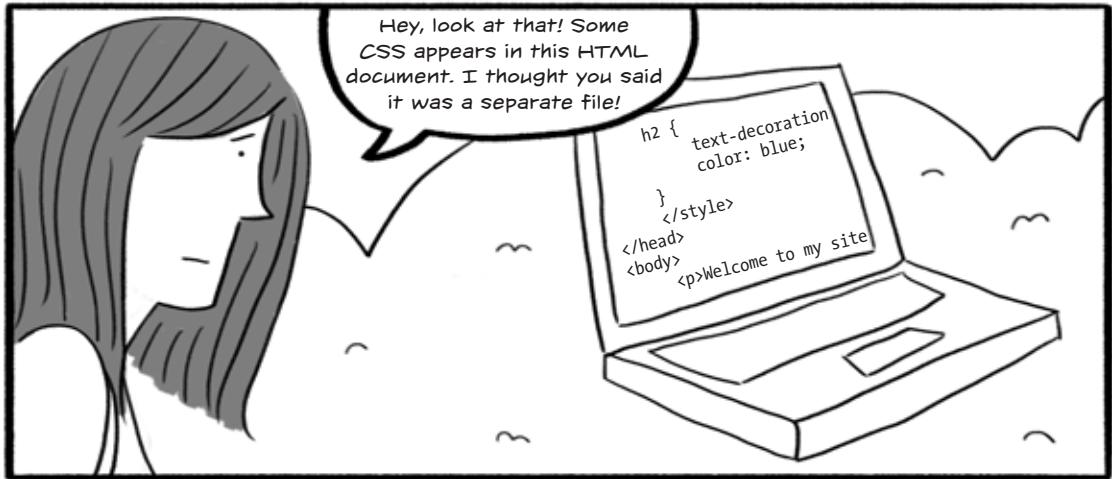
Well, I do like that I'll be able to control the look of my site regardless of which device someone is using.



That's the power of CSS! Learning just a little bit goes a long way.

Digging into CSS





Remember how this one CSS document at the root applies the style for the entire site? By keeping all of your CSS in this document, you just have to go to one place to make changes.

The more CSS you put into individual HTML documents, the more places you'll have to go when you want to make changes.



That seems like a lot of work.

You bet!

But let's say I apply two different bits of CSS to the same document. For example, what if I have the font size set as 1em in the `style.css` file and then I change it to 2em in this HTML file? Which CSS does the page take?

Great question! CSS inherits properties in the order they are loaded. Since the stylesheet stored at the root is linked into the `<head>` of the document, it is loaded first.

So the paragraphs get set to 1em. But if we then have CSS in this HTML document that sets the fonts to 2em...

Then the 2em takes the place of the original 1em.

Correct! What the web browser displays depends on which CSS property it looks at last. Those that come later in a document take precedence over any earlier properties. So if at first you define the font size...

```
p {  
    font-size: 1em;  
}
```



...and later you add another property to the stylesheet to change the color...

...then in the finished document the style is combined so the paragraphs will be both 1em and blue.

```
p {  
    color: #009ACD;  
}
```



What are those funny numbers?

#009ACD

That's a hex value. Colors are assigned to numbers according to their intensity of red, green, and blue. We put a # at the beginning of each hex value for a color.

```
p {  
    font-size: 1em;  
}  
p {  
    color: #009ACD;  
}
```

The one I've used here is a specific shade of blue. You can also use shortcuts like the words blue or red. You can even use number values for specific amounts of red, green, and blue that look like this:

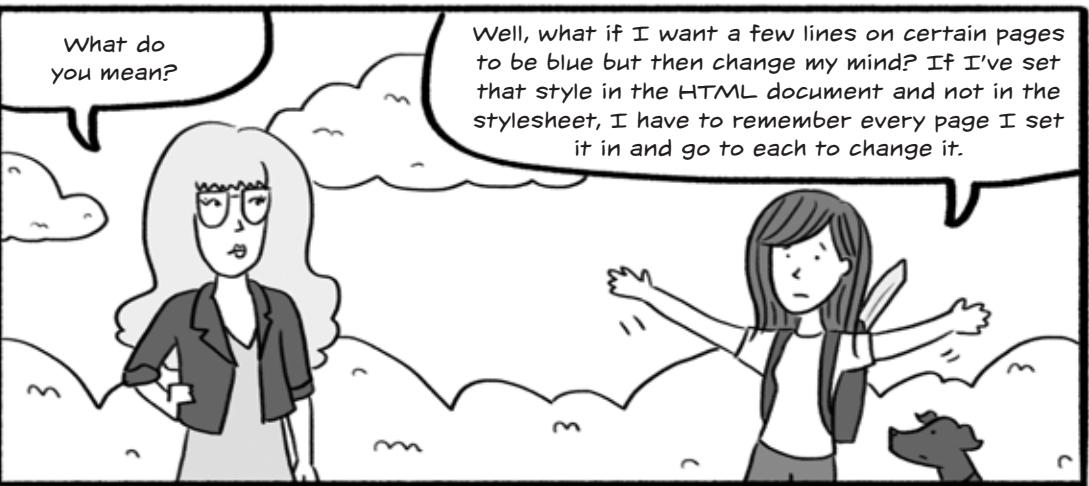


But that seems like it will cause problems.



What do you mean?

Well, what if I want a few lines on certain pages to be blue but then change my mind? If I've set that style in the HTML document and not in the stylesheet, I have to remember every page I set it in and go to each to change it.



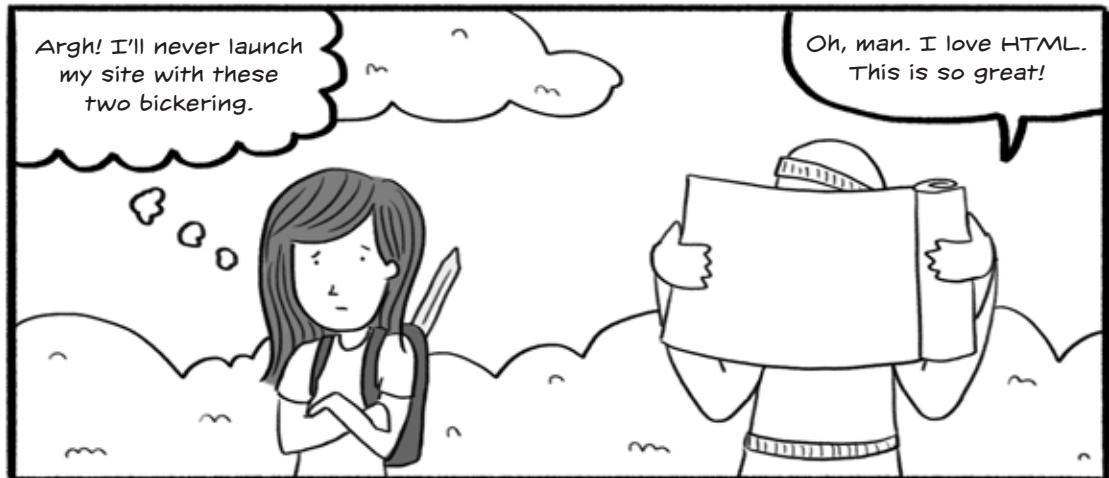
Exactly. That's why there are more advanced tools that let us use the stylesheet to apply special styles selectively across different pages.

Oh boy...I don't know if I'm ready for "advanced."



Kim Learns CSS Classes and IDs





I think I get it. Right now both paragraphs are in the same tag, so there's no way to uniquely identify them in the CSS.

This is where you can use id and class as unique identifiers in your HTML. These attributes can then be called out in the CSS. We've already seen some attributes--the href in link tags and the src and alt in image tags. In this example, we might change the HTML to look like this:

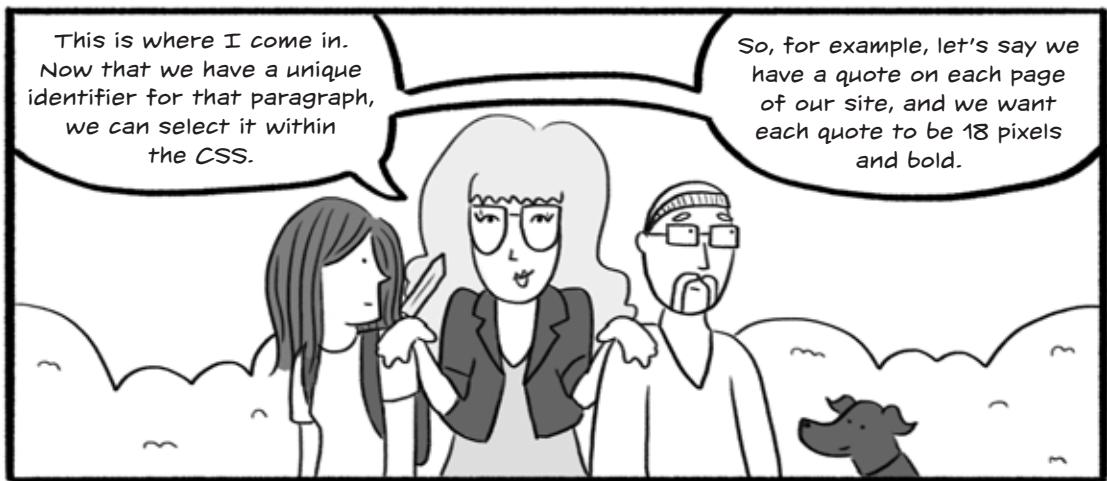
```
<p>Welcome to Kim's site. This is where you can find all of my work,  
including my portfolio comics and pictures of my dog, Tofu.</p>  
<p id="quote">"If you work really hard and you're kind, amazing things will  
happen." Conan O'Brien</p>
```

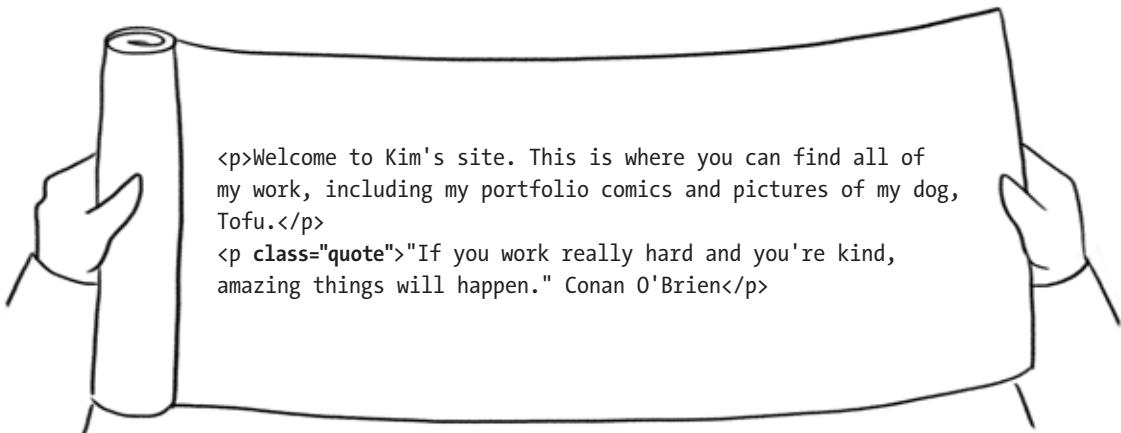
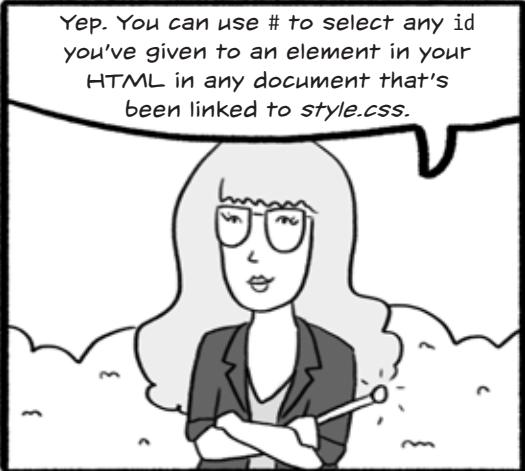
What does id="quote" mean?
Does it have to be called quote? What does it do?

That's an ID, like an identity. You can give the ID any name as long as it's unique.

So now the font is changed for the quote?

Not exactly...







And you select it out differently in the CSS.
When you're dealing with classes, you'll need to use this in the CSS:

```
.quote {  
    font-size: 18px;  
    font-weight: bold;  
}
```



Oh, I see, so it's a # for id and a . for class, right?

Yes. But keep in mind that this isn't just for paragraph elements—it can be used for any tag in your HTML.

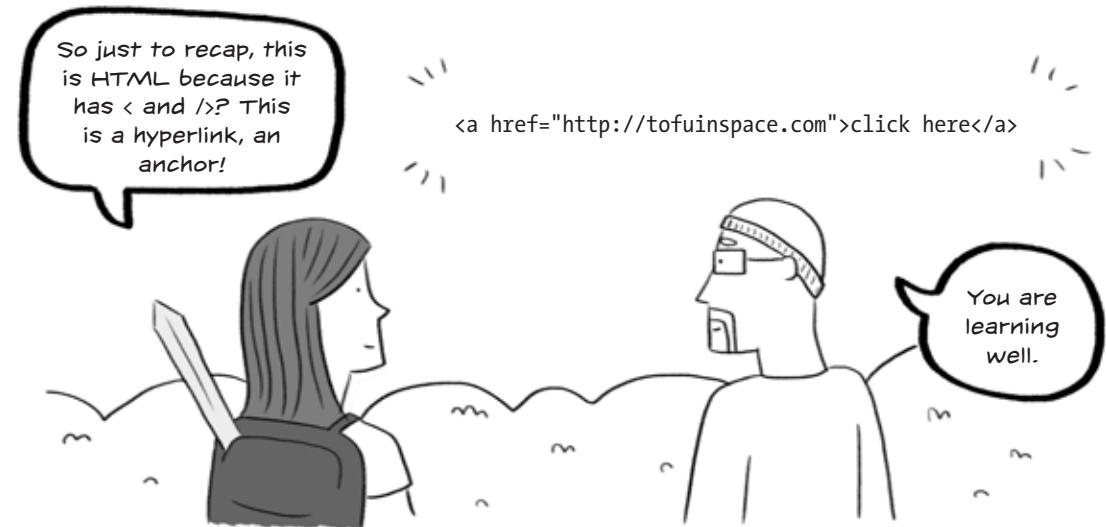


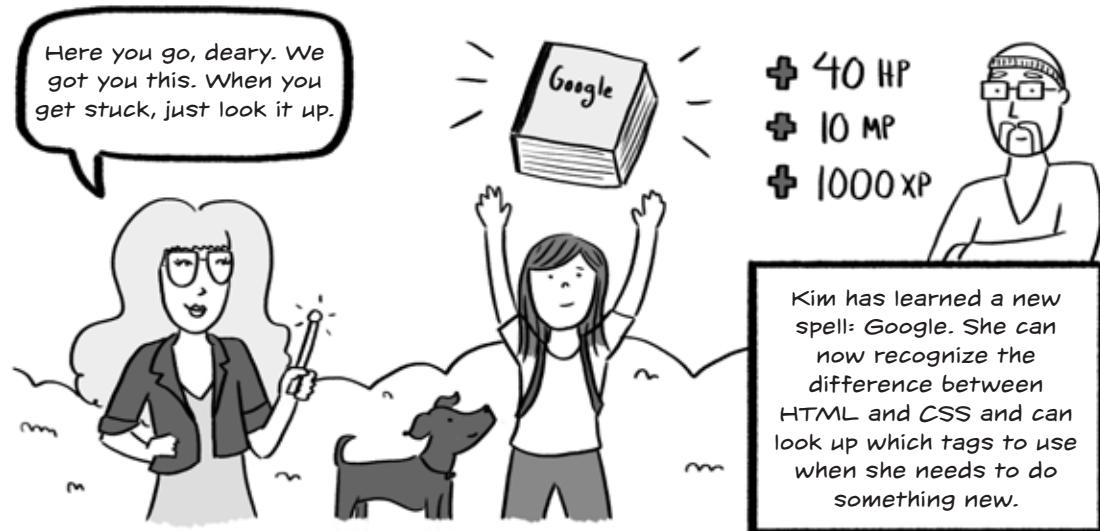
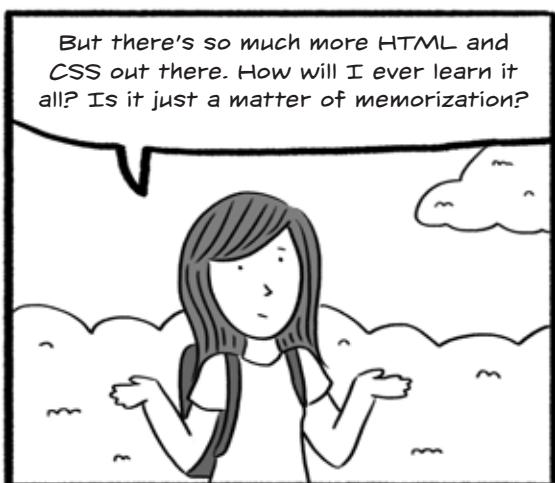
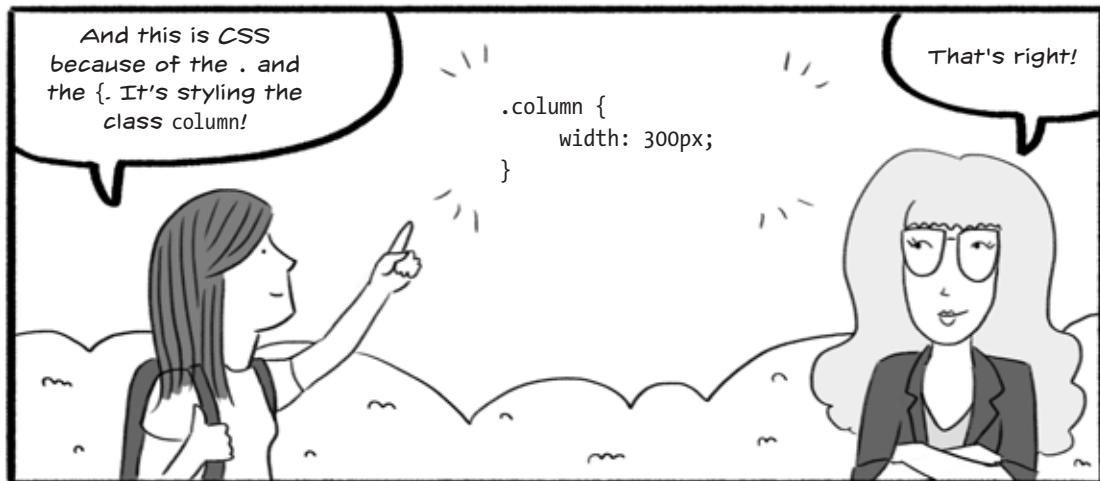
What if I want to create a section of the page that is independent of a paragraph? For example, what if I wanted to make a column like in a newspaper?



News still comes on paper?







Cascading Style Sheets

Before we can dive into learning *Cascading Style Sheets (CSS)*, we'll need to know a little bit about how CSS connects to HTML. CSS and HTML are used together and rely upon each other to work. Think of HTML as an architect who builds the skeleton of a building and gives each web page its basic structure. CSS is more like the interior designer deciding how things look, what color the walls are, and where the furniture goes. In this chapter, we'll see how to build on the bare-bones HTML framework and add some extra flair and finesse with CSS.

CSS can be added to your site in a few different ways. You can use CSS *inline*—that is, written right inside an individual HTML tag—or you can put CSS into the `<head>` of a document. The most common and powerful way of including CSS is to create a separate stylesheet file and link it to each HTML document. That's what we'll be doing in this chapter.

Setting Up Your Stylesheet and Linking It to Your HTML

The name *Cascading Style Sheets* actually comes from the magazine world, where a *stylesheet* is how desktop publishing programs format and present the magazine's pages. It's a single file that dictates things like the font and margins. Any changes that need to apply throughout the entire magazine can be made in a single place, and those edits cascade through the magazine. By creating a separate file for the CSS on your website, you mimic the power of the magazine stylesheet. All you need to do is create a separate CSS file and use the `<head>` section to link each HTML document to that file. The resulting organization might look something like Figure 3-1.

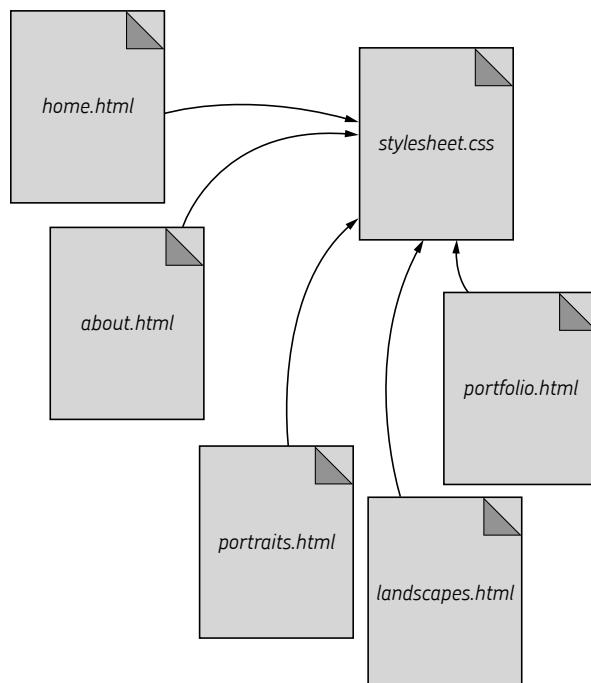


Figure 3-1: You can have all the pages on your website point to a single stylesheet.

Making Your First Stylesheet

In your code editor, create a new document and call it `style.css`. Technically, it doesn't matter what you call the document as long as it ends in `.css`. Like HTML, the contents of the file are just text, but by using the file extension `.css`, you let the web browser and server know to expect CSS and not HTML or text. Save the file in the same folder as your `test.html` file. This is important because you'll need to know the path to connect your stylesheet to your HTML document, just like with linking images.

Next, open your `test.html` document. In the `<head>` of the document, add this line of code: `<link href="style.css" rel="stylesheet">`. It doesn't matter whether you add this above or below the `<title>` and `<meta>` tags, as long as it's between `<head>` and `</head>`, but we'll put it on a line right before the `</head>` tag. Your document should now look like this:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
    <meta name="description" content="A test page created while learning to code using
the book Build Your Own Website.">
    <link href="style.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
    <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
  </body>
</html>
```

That little line of code is all we need to link the stylesheet we've created to our HTML document. For every other HTML page in our site, we'll use the same line of code in the `<head>` to link the HTML document to the single stylesheet.

Since a stylesheet is so fundamental to a modern website, it is common practice to place yours in the most important folder of your site, the "top" or so-called *root* directory. We know from the latest part of Kim's adventure that to link to the path to the root of a site, you can simply use the `/` at the start of your path. For example, if you are working on a web page in a folder called *portfolio*, your `<link>` might look something like this:

```
<link href="/style.css" rel="stylesheet">
```

By including this link in each of the `<head>` sections, you can link many different HTML pages to the same stylesheet, even if they're in different folders.

It might take you some time and practice before you become fully efficient with paths. But don't get intimidated. The main things to remember are that / is used every time there is a new folder, and you always work from the current folder in the case of relative paths. So if a file is in the same folder, you don't need the /; but if it's in a different folder, use / to signify that you are moving up a level. Because we are working off a computer, not a live server, just keep *style.css* in the same folder as *test.html* and link it using just the filename.

CSS: The Language of Style

Now that we have a separate stylesheet in our *style.css* file and a link to *style.css* in *test.html*, we're ready to start doing something with it. Open your blank *style.css* file and type the following text:

```
p {  
    font-family: Helvetica, Arial, sans-serif;  
}
```

Save your work, and refresh your HTML page, *test.html*. Did you see the difference? The font should have changed for all of the paragraphs on your page. So how did that happen? When we added that `<link>` to the `<head>` of our HTML document, we essentially told the HTML page to behave according to the properties set forth in our *style.css* file. To add a property in CSS, you have to first use a selector. A *selector* is a unique identifier for the segments in the HTML that you want to change. In this example, we used the selector `p`, which corresponds to the HTML tag `<p>`. We then added the property `font-family`—with the values `Helvetica, Arial, sans-serif`—to that selector. By using the `font-family` property, we're indicating that we want to change the font. The values for this property define what to change the font to. In this case, it tells your browser to change the font to Helvetica, but if that font isn't available, then use Arial; and if Arial is also not available, grab the next available sans-serif font. (*Sans-serif* means a font without the little hooks and feet on the letters, like you see in Times New Roman—see Figure 3-2.)

Just like HTML, CSS is not whitespace dependent. That means that the code would have worked the same way had we written it on one line like this:

```
p {font-family: helvetica, arial, sans-serif; }
```



Figure 3-2: Sans-serif typefaces like Arial (left) are clean and modern-looking; serifed typefaces like Times New Roman (right) have little “feet.”

Once again, the extra spacing is just a convention to help make the code easier to read.

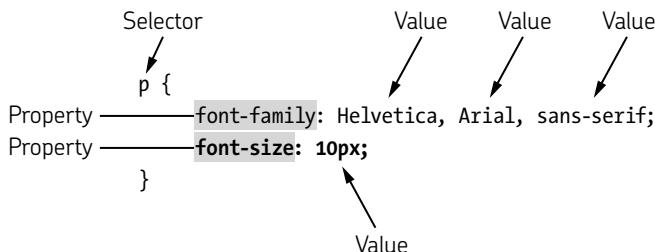
What we've done is created a property that must be followed by every paragraph; that is, the `p` in our CSS corresponds to the `<p>` element in any HTML document that links to this stylesheet. You're probably starting to see why CSS is a very powerful tool. Suppose we had 10, 20, 200, or 2,000 pages in our website. If each links to this *style.css* document, we would need to edit only this single file to change all the fonts in all the paragraphs for the entire site.

CSS Syntax

That CSS line looks different from HTML, doesn't it? CSS is a different language from HTML, so when you write CSS you have to follow different properties. The two main components are the selector and the curly brackets ({}) that follow it. The selector tells the CSS which HTML element (such as `<p>` or ``) you'd like to create a property for. You put the properties between the curly brackets.

Values for a property are defined with a colon (:) and separated by commas (where there's more than one). Properties are separated from other properties by a semicolon (;). If you forget any of these pieces, your CSS won't work!

Let's define another property to the paragraph selector to see how it works. After the `font-family` line, press RETURN and set the font size to `10px`. Your CSS code should look like this:



Save your `style.css` document and then reload your `test.html` page in your web browser. Remember that because we linked `test.html` to `style.css`, any changes we make to `style.css` will be automatically reflected in `test.html`. You should see that the paragraphs' font size has decreased.

When changing CSS dimensions like the size of the fonts, you have several ways of measuring. Two commonly used font sizing options are `px` and `em`. In the preceding example, we used `px`, which sizes the font according to a set number of pixels. Since the amount of pixels on a screen can vary depending on its resolution, a font set at 10 pixels might show up slightly larger on a small screen (where there are fewer pixels) but smaller on a huge display (where there are tons of pixels).

If you set the font size with `em`, on the other hand, that font size is relative to the current default font size. Using `em` allows you to adjust the font size proportionally according to the browser it's being viewed on. The default font size for a given browser is 1 `em`. For a mobile browser, the default font size is usually smaller so you can see more text. On a desktop browser, the default will usually be bigger.

If you set the font size to less than 1 `em`, the font will appear smaller than the default size; if you set it to more than 1 `em`, it will appear larger. (For example, a font set to 0.8 `em` will appear smaller than the default size, while 1.2 `em` will appear larger.) When you want to have a site that's flexible and adaptable for many different browsers, using `em` is very practical. For starters, though, try sticking with `px` so you can get the hang of sizing.

Don't get overwhelmed. You've already seen that with any technology, you have a couple of different ways of doing the same thing, but with varying results. Imagine painting a canvas. You can use a roller, a sponge, or any of several thousand brush sizes. It all comes down to what's best for the task at hand. You don't become a Rembrandt overnight, but with practice you'll start to understand the advantages and disadvantages of using things like `px` and `em`.

Let's take a look at our web page in the browser (see Figure 3-3).



Figure 3-3: The paragraphs have the font properties we applied in the CSS. The headings do not.

So far, we've changed only a single element in our HTML, the `<p>` tag. You may have noticed that the *Hello World!* part hasn't changed. In our code, *Hello World!* is wrapped in the `<h1>` tag. That means that all of the CSS properties we applied under the `p` selector don't apply to it. Let's say we also want to change the font and set the font size for our `<h1>` tags. Open your CSS file and add the properties for the `<h1>` selector, just like we did for the paragraph tag, but set the font size to `1.3em`. Also change the font size in the paragraph tag to `.8em`. Your CSS code should look like this:

```
p {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: .8em;  
}  
  
h1 {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: 1.3em;  
}
```

Save your document and reload *test.html* in your web browser. We changed the font, but perhaps you're wondering: Wasn't the `<h1>` already larger? Why did we add in the `font-size` if the default setting automatically makes `<h1>` bigger than `<p>`? Those are great questions. Anything we don't intentionally take control of in the CSS is left to the browser defaults. While most browsers automatically make `<h1>` larger than `<p>`, how *much* bigger can vary from browser to browser. CSS is where *you* get to take control and tell the browser you want something to be exactly a certain size or proportion. By setting up properties in CSS, we're elaborating on the basic structure provided by the HTML page so that the project gets built exactly to our specifications.

Classes, IDs, and Inheritance

We've taken our first steps to define the style of broad elements in the CSS. By now, you should understand that any tagged element in HTML can be selected out in the CSS for modification. What if you want to select out a more specific section, though? Let's say, for example, that you have a quotation that you want to format differently than the rest of the page. Open your HTML document and add the following bolded code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
    <meta name="description" content="A test page created while learning to code using
      the book Build Your Own Website.">
    <link href="style.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
      <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
    <p>I have never let my schooling interfere with my education. - Mark Twain</p>
  </body>
</html>
```

It's behaving as we might suspect (see Figure 3-4). We set up the properties for a paragraph to have a certain font and size, and all of our paragraphs are behaving according to those properties.

But we want this quote to have its own properties. There's nothing in the code that makes this paragraph special, so how do we target it in the stylesheet? We'll have to do something to the HTML to give it a special name or qualification—an *attribute*. Open your *test.html* file in your code editor and add this to the paragraph tag:

```
<p id="quote">I have never let my schooling interfere with my education. - Mark Twain</p>
```

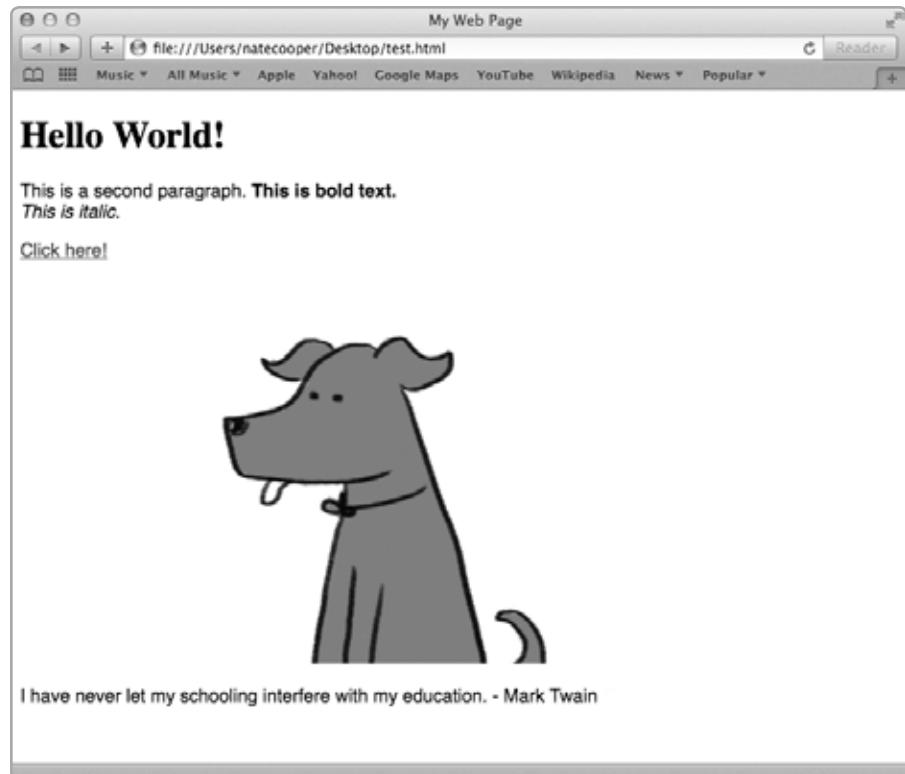


Figure 3-4: The new paragraph at the bottom of our page behaves by the existing properties from the stylesheet because it is still a paragraph.

ID is a unique identifier you can add to (almost) any tag in HTML to call it out by name in the CSS. In this case, we named it `quote` for simplicity's sake, but when you create an ID you can give it any name you like.

Save and reload, and you should see that, so far, nothing is different. Even though we've given this paragraph a unique ID, it's still a paragraph and it will *inherit* the properties and attributes we've applied to the `<p>` element. But we want to do something special with just this one paragraph, so how do we identify it in the CSS? Any time you want to identify a specific ID in CSS, you use a hash mark (#). Instead of specifying `p` in the selector, we'll use a `#quote` selector instead.

Let's add the following into our stylesheet so that we can make some changes to the `quote`'s formatting:

```
#quote {  
    text-align: center;  
    color: gray;  
}
```

After saving and reloading, you should notice that the font color is now gray and the text is centered on the page (see Figure 3-5). The font and size remain the same. This is

what's meant by *cascading* (also sometimes called *inheritance*) in CSS: Anything that you don't specifically change will cascade down from the previous property. So in this case, we have a paragraph `#quote` that takes on all of the existing properties of being a paragraph first and then takes on any additional properties we apply to it.

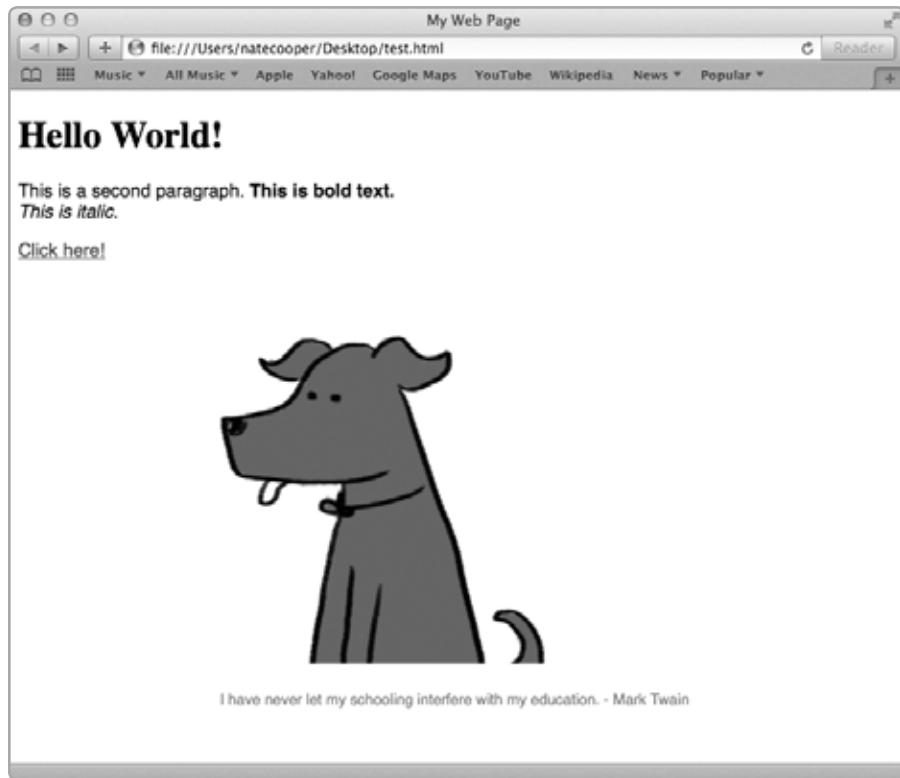


Figure 3-5: Because the `#quote` paragraph is given a unique ID, you can give it different properties to make it centered and gray.

Add `font-family: Times, Courier, serif;` on the next line after `color: gray;`. Your CSS file should look something like this:

```
p {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: .8em;  
}  
  
h1 {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: 1.3em;  
}
```

```
#quote {
    text-align: center;
    color: gray;
    font-family: Times, Courier, serif;
}
```

Save and reload. Now you should see that the quote in the browser is in a different font than the other paragraph, while the size remains the same. ID works great if you have only one per page, but what if you want more than one? Class is a better tool to use if you want to style several parts of your page in the same way. In this case, we're looking to style a group of quotes. Let's add another quote into the *test.html* code and see how classes work.

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
    <meta name="description" content="A test page created while learning to code using
      the book Build Your Own Website.">
    <link href="style.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
      <em>This is italic.</em></p>
    <p><a href="http://natecooper.co">Click here!</a></p>
    
    <p class="quote" id="twain">I have never let my schooling interfere with
      my education. - Mark Twain</p>
    <p class="quote" id="einstein">Education is what remains after one has
      forgotten what one has learned in school. - Albert Einstein</p>
  </body>
</html>
```

Notice how we've changed both the original quote and the new quote we've added. In each case, we've given the paragraphs a class of *quote*, signifying that they are part of a group. A class, unlike an ID, can be used multiple times within a page. You can give an element both a class and an ID, and you can give multiple elements the same class, but you don't want to give the same ID to different elements on the same page. IDs are meant for picking out a single element on a page to style it uniquely, while classes are good for picking out a group of elements on a page to style the same way. As you might imagine, classes and IDs are targeted separately via your CSS document. You can see the code here:

```
p {
    font-family: Helvetica, Arial, sans-serif;
    font-size: .8em;
}
```

```
h1 {  
    font-family: Helvetica, Arial, sans-serif;  
    font-size: 1.3em;  
}  
  
.quote {  
    text-align: center;  
    color: gray;  
    font-family: Times, Courier, serif;  
}  
  
.twain {  
    color: blue;  
}  
  
.einstein {  
    color: red;  
}
```

Notice how in the CSS we use a *dot* (.) to signify class. The <p class="quote"> in HTML is selected with .quote in the CSS. Knowing when you would use class and when it's better to use ID can seem tricky at first, but you'll get the hang of it with some practice. The main takeaway here is that both class and ID can be applied to any HTML elements that you need to separate from the general CSS properties for an element. Class can be applied as often as needed within a page or across pages, while ID can be used only once per page. Class defines styles that you might want to use again and again; in this case, quote is a class because we are going to have more than one quote on the page. Since ID is narrower and more specific, the style within it can trump styles set by class, as shown in Figure 3-6. Here we're applying class and ID to the <p> tag, but you can apply them to any tag that you want to distinguish from the rest of the page.

Colors

In the previous example, we changed the color of our paragraphs using the words `blue`, `red`, and `gray`. This is one of several ways to set the color of elements in CSS. For many colors, you can use English words to change them in CSS (even weird ones like `azure` and `salmon`), but another way to assign colors is by using a *hex value*. What does that look like? For example, `#FFFFFF` is white and `#000000` is black. You can also represent colors using red, green, and blue (RGB) values. That looks like `rgb(0,0,0)` for black, or `rgb(255,255,255)` for white. Hex values, RGB values, and color names are just different ways of expressing the same concept. Unlike `px` and `em`, though, you get the same results no matter what you use.

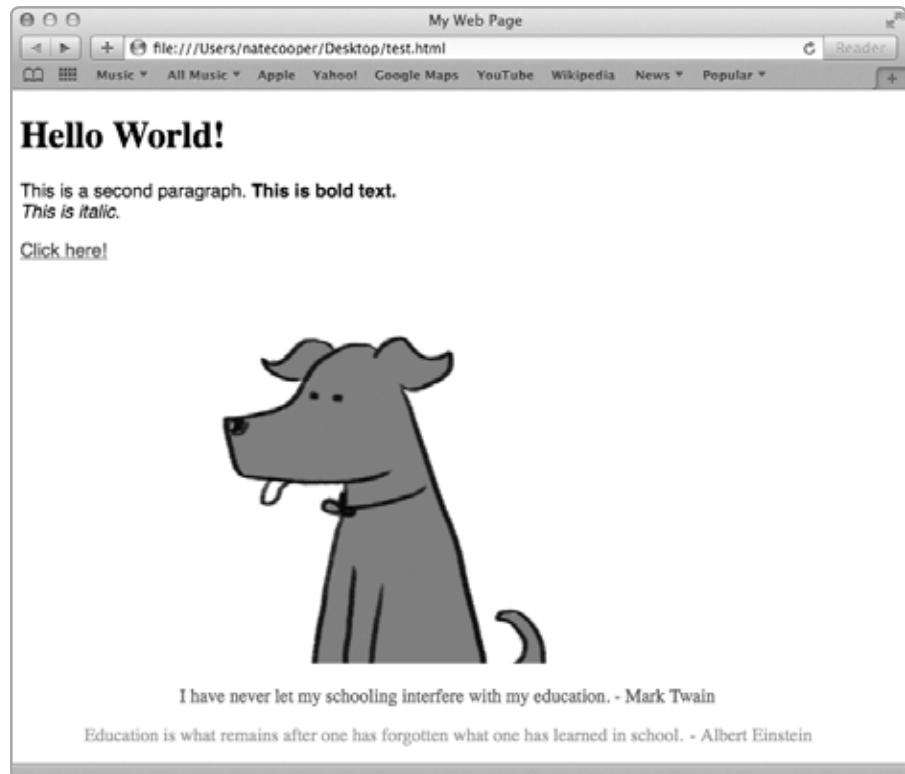


Figure 3-6: Class defines characteristics for both quote paragraphs. ID specifies the color for each uniquely.

For example, any one of these will give you the exact same color for your #twain:

```
#twain {  
    color: rgb(0,0,255);  
}  
  
#twain {  
    color: #0000FF;  
}  
  
#twain {  
    color: blue;  
}
```

For your reference, Table 3-1 lists common colors you might want to use in CSS. You can learn whichever color system makes the most sense to you.

Table 3-1: Common Colors

Color	Hex value	RGB
black	#000000	rgb(0,0,0)
gray	#COCOCO	rgb(192,192,192)
white	#FFFFFF	rgb(255,255,255)
yellow	#FFFF00	rgb(255,255,0)
red	#FF0000	rgb(255,0,0)
green	#00FF00	rgb(0,255,0)
blue	#0000FF	rgb(0,0,255)

The <div> Tag and Alignment with CSS

Every HTML element we've discussed so far has some basic default styling. The `<p>` tag, for example, separates one paragraph from another with a space. The `<h1>` tag automatically makes the text bold and larger. Next we'll look at the `<div>` tag. This tag has no inherent properties, which makes it especially handy for custom CSS. Go back to your HTML document and add the following code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Web Page</title>
    <meta name="description" content="A test page created while learning to code using
the book Build Your Own Website.">
    <link href="style.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello World!</h1>
    <p>This is a second paragraph. <strong>This is bold text.</strong><br>
<em>This is italic.</em></p>
<p><a href="http://natecooper.co">Click here!</a></p>

<p class="quote" id="twain">I have never let my schooling interfere with my
education. - Mark Twain</p>
<p class="quote" id="einstein">Education is what remains after one has forgotten
what one has learned in school. - Albert Einstein</p>
    <div>This is The Guru's div.</div><div>This is Glinda's div.</div>
  </body>
</html>
```

Save the document and refresh your browser. You should notice a few things. One is that the `<div>`s are not using the Helvetica font that your paragraphs use. That should make sense because when we applied that CSS property, we applied it only to the `<p>` tag. Another interesting thing to note is that the spacing between the two `<div>`s is different than the spacing between paragraphs; it's more like what you get with a `
` than a `<p>`. `<div>` is short for *division*, and it's a kind of code separator that has little or no inherent qualities until we add them with CSS. Let's do that now. We'll need to create a unique identifier for each of our two `<div>`s in the HTML first so that we can style them differently in the CSS. We can do that with IDs. Go back to the line of HTML code and label each `<div>` like so:

```
<div id="guru">This is The Guru's div</div>
<div id="glinda">This is Glinda's div</div>
```

Now that we have unique IDs on each `<div>`, we can select them out in the CSS.

```
#guru {
    height: 100px;
    width: 100px;
    background-color: blue;
    float: left;
}

#glinda {
    height: 100px;
    width: 100px;
    background-color: green;
    float: left;
}
```

Save and reload your page. If all works well, you'll see something that looks like Figure 3-7.

We applied a couple of CSS properties there, so let's look at each of them. First, we set the `width` and `height` of each `<div>`. `<div>`s have no inherent dimensions. If we hadn't added text and set the width and height, our `<div>`s wouldn't be visible on the page at all. By setting each `<div>` to 100px by 100px, we're making a small box. We also set the color of the background with the `background-color` properties. The property `color`, which we used earlier, is for setting the color of fonts, while `background-color` sets the *container* background color. A container is what we might call an element that holds something between its start and end tags. In this case, the container is a `<div>`, but you could also set the `background-color` of a `<p>` or a ``. The last property we apply is `float: left`. `float` is a positioning property that can help us with alignment; it adds a kind of gravity to the left or the right side of the browser window. When we add `float: left` to each `<div>`, they fall together as if gravity is pulling them to the left side of the window.

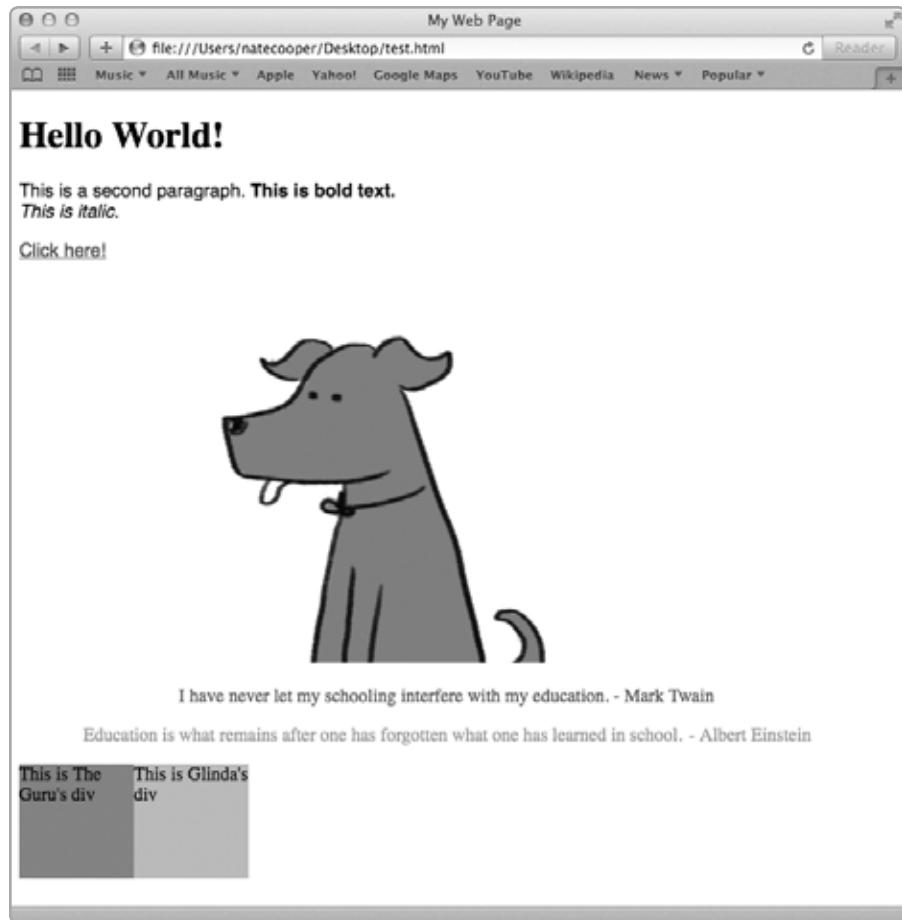


Figure 3-7: The `<div>` is basically invisible until you give it properties. In this case, we've changed the color and shape.

Let's look at our CSS code again:

```
#guru {  
    height: 100px;  
    width: 100px;  
    background-color: blue;  
    float: left;  
}  
  
#glinda {  
    height: 100px;  
    width: 100px;  
    background-color: green;  
    float: left;  
}
```

There is a lot of overlap with the properties for our boxes. There must be a cleaner way we can add CSS. What about adding an attribute to the HTML? Open your HTML document and add a `class="box"` to each `<div>`.

```
<div class="box" id="guru">This is The Guru's div</div>
<div class="box" id="glinda">This is Glinda's div</div>
```

Now we can open our CSS file and attach a lot of our common properties to the class and leave the unique properties to the IDs, like so:

```
.box {
    height: 100px;
    width: 100px;
    float: left;
}

#guru {
    background-color: blue;
}

#glinda {
    background-color: green;
}
```

In this case, we've taken all of our alignment and sizing properties and attached them to the class and left only the colors (the unique properties) attached to the IDs. This will leave us in good shape to add common properties that apply to both boxes. Let's add a text alignment property to `.box` in our CSS file.

```
.box {
    height: 100px;
    width: 100px;
    float: left;
    text-align: center;
}
```

Once you save `style.css` and reload your HTML document, you should see that the text within the boxes is centered, but the boxes themselves are still floating to the left. The `float` property is applied to the container in this case, while the `text-align` property is applied to the text within the container. You'll notice this kind of thing happening a lot with CSS; the inner and outer parts of a container are affected differently depending on which properties you use.

Margins and Padding

Margins and padding provide a good example of the difference between a property that affects the inner part of a container and one that affects the outer part. Open your CSS file and add the following to the `.box`:

```
.box {  
    height: 100px;  
    width: 100px;  
    float: left;  
    text-align: center;  
    margin: 5px;  
}
```

When you save and reload your page, you should see something like Figure 3-8.

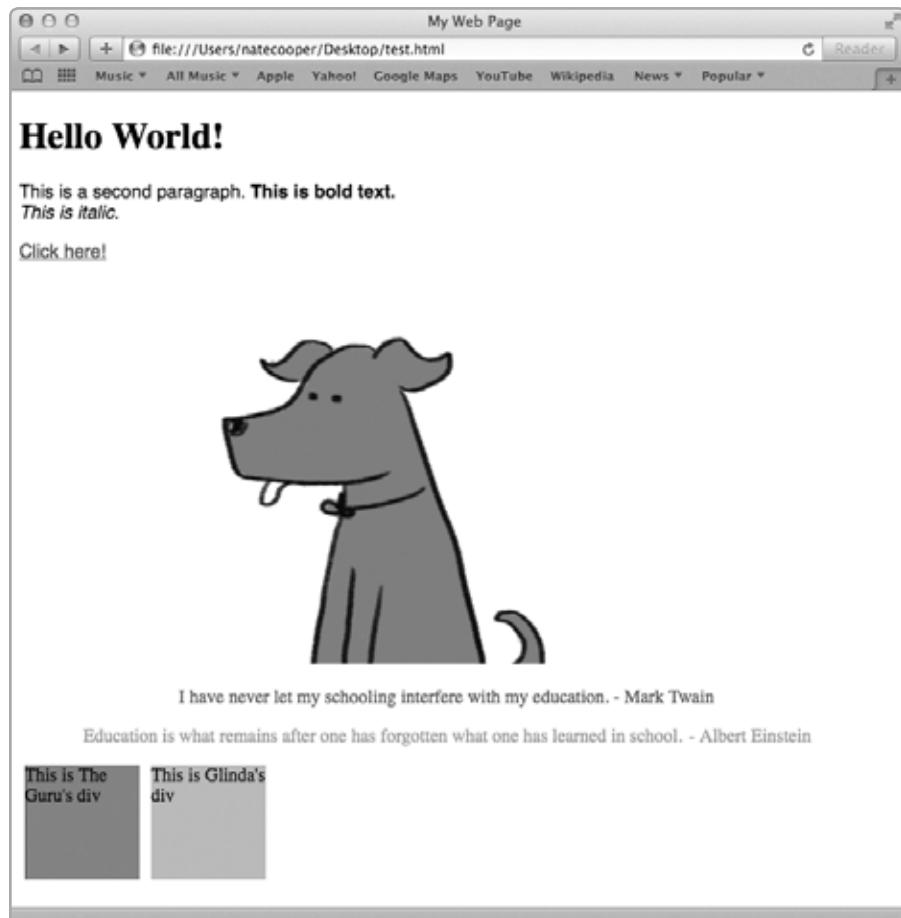


Figure 3-8: The `margin` property creates space between objects.

Space was created all around the boxes, which pushes them apart. Now go back to your CSS file and change the margin to padding, like this:

```
.box {  
    height: 100px;  
    width: 100px;  
    float: left;  
    text-align: center;  
    padding: 10px;  
}
```

Now you have something like Figure 3-9.

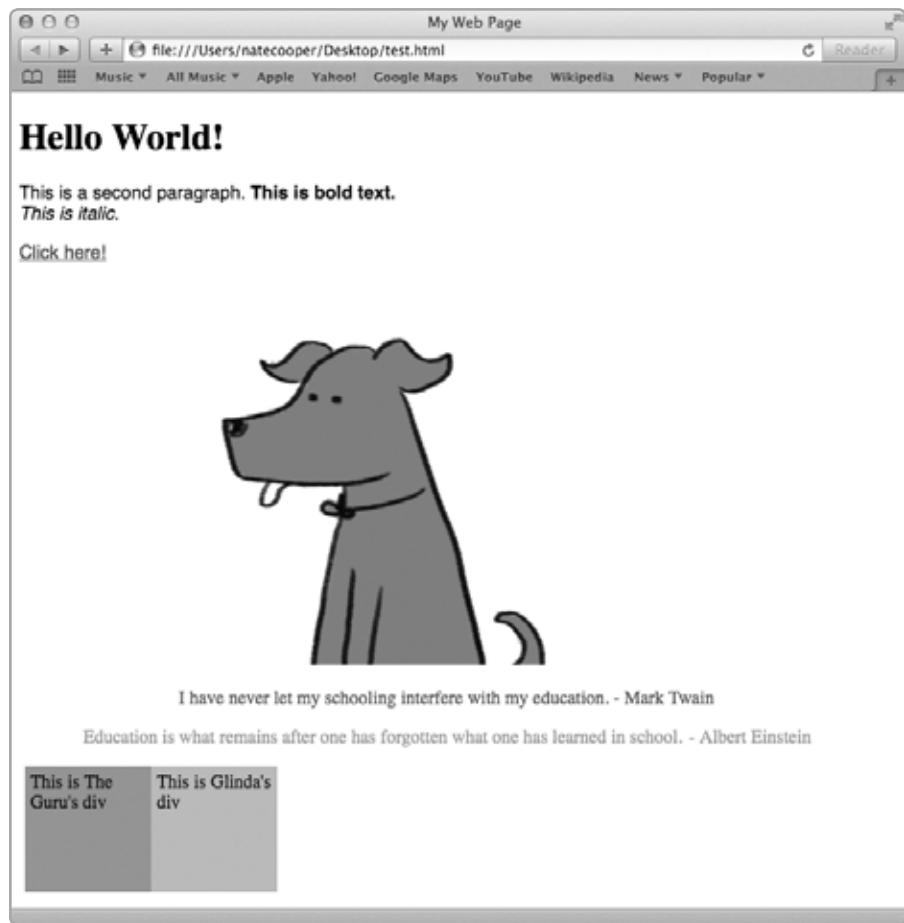


Figure 3-9: The padding property creates space within the `<div>`s.

The boxes are squished together again, but there is some space between the text and the outer edges of the boxes. `margin` is space *between* elements, and `padding` is spacing *within* an element, as illustrated in Figure 3-10.

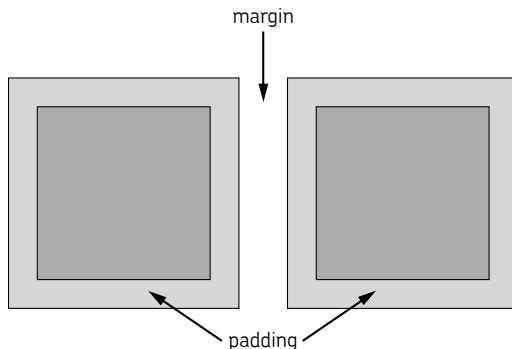


Figure 3-10: Notice the difference between `margin`, which separates two containers, and `padding`, which separates the edge of the container from its contents. It's a subtle but important difference.

Go back to your CSS file, and restore `margin` and adjust your `padding` to `5px`. Your code should look like this:

```
.box {  
    height: 100px;  
    width: 100px;  
    float: left;  
    text-align: center;  
    padding: 5px;  
    margin: 5px;  
}
```

This should leave a little room between your text and the edge of an element and also some space between the boxes. Deciding when to use `padding` and when to use `margin` can be tricky at first. The important thing is to practice, and don't worry too much initially about things looking a bit wonky. That's part of learning.

Using `<div>`s for structure

If you'd like to see how CSS can be used for structuring a document, here is an example you can try. Create an HTML document, save it as `columns.html`, and type the following code into it:

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Columns Example</title>  
        <link rel="stylesheet" href="columns.css">  
    </head>
```

```
<body>
  <div class="main">
    <div class="header">Header</div>
    <div class="column" id="leftcolumn">left column</div>
    <div class="column" id="rightcolumn">right column</div>
  </div>
</body>
</html>
```

Next, create and save a CSS file called *columns.css*. Type the following code in it:

```
.main {
  margin: 0 auto;
  width: 80%;
}

.main:after {
  display: block;
  clear: both;
  content: "";
}

.column {
  width: 50%;
  min-height: 500px;
  margin-bottom: 20px;
  float: left;
  display: block;
}

#leftcolumn {
  background-color: blue
}

#rightcolumn {
  background-color: red;
}

.header {
  width: 100%;
  height: 100px;
  background-color: yellow;
  clear: both;
}
```

You should see something like Figure 3-11.

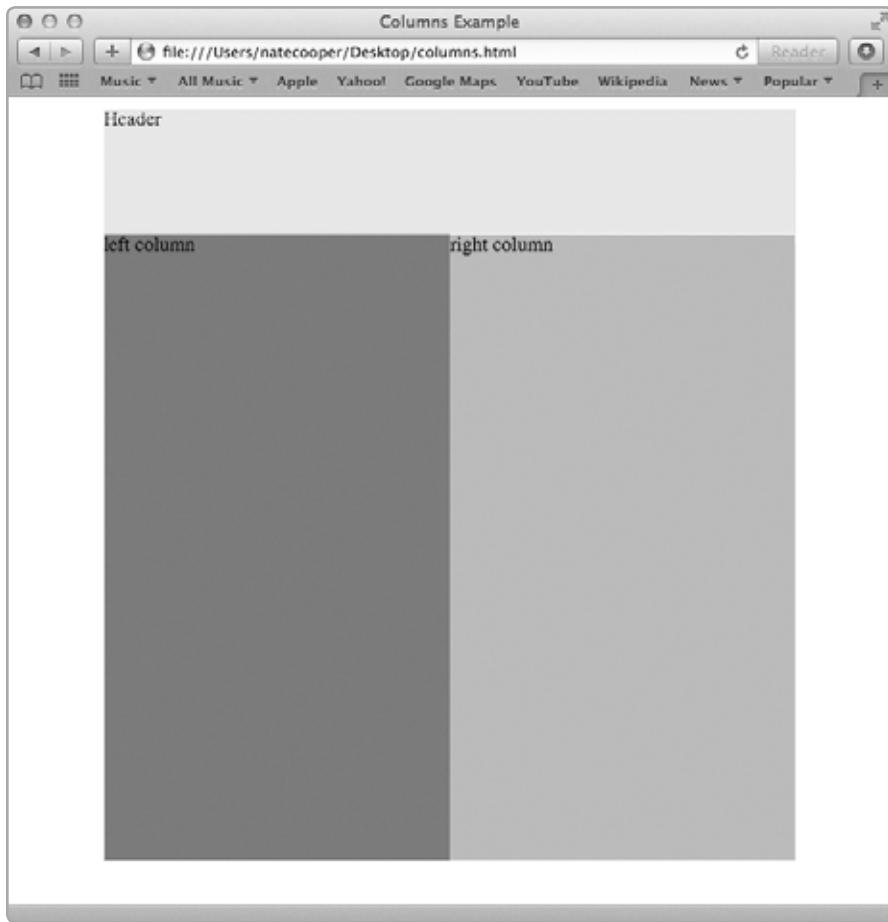


Figure 3-11: In this example, we've created two columns using `<div>`s and placed a third `<div>` on top as a kind of header.

As you can see from this example, CSS isn't just for fonts. You can use it to scaffold complex layouts that scale and change according to the browser. In this case, we've used `<div>`s to structure our page.

First, we've got one large `<div>` called `main` that wraps all of our content together. We've given it some properties: `margin: 0 auto;` `width: 80%;`. These center the `<div>` and set its width to a fraction of the overall page.

Inside of the `main` `<div>` we have a header `<div>` and two `<div>`s with a class `column`. We want the header to be the full width of the `<div>`, so we add `width: 100%;`. We want it only on the top, so we set the height dimensions in pixels: `height: 100px;`. Below the header, we want the two columns. Since the columns will be equal in width and height, we'll use `class` to define the properties that are shared among them: `width: 50%;` `min-height: 500px;`. Each column takes up half of the `main` `<div>`, so its width is 50%. We want the height to be a little shorter than the `<body>` so we use `margin-bottom: 20px;` to add some space at the bottom.

NOTE In CSS, nesting HTML elements inside of each other—as we’ve nested our header and column elements inside the main `<div>`—is called the box model.

Now the header, the left column, and the right column are set up correctly with the right dimensions; however, until you add the `float`, they are going to stack vertically on the page. Floats are often used to wrap elements around each other. For example, if you put a `float: left;` property on an image, the image will hug the left side of its container element and text will wrap to the right. Here, the `float: left;` property tells the column `<div>`s to cling to the left side of the page.

Be careful, though—floats can be tricky. Once you add a float to one element, the browser expects to wrap it around all the others. In our case, the header might not work right without accounting for the floats. We use the `clear: both;` property on the header to help with this. `clear` tells an element to ignore a float happening on its left, right, or both left and right. We also have to add a `clear` float to the main `<div>` using what’s called a *pseudo-element*: `main: after;`. However, this will work only if we add the `display` and `content` properties as shown. A pseudo-element creates a dynamic within HTML, most commonly before or after a paragraph. This is a workaround that should give you a nice structured document that you can actually use and play around with.

As you start to master some of the more advanced properties in CSS, you can make columns and sidebars, and even hide and show elements on a page.

Ready for even more CSS? Try out the properties in Table 3-2.

Table 3-2: Common CSS Properties

Property	Value(s)	Description
<code>background-color</code>	<code>hexvalue, rgb, color name</code>	Sets the background color of a container (like a <code><p></code> or <code><div></code>).
<code>background-image</code>	<code>url("http://address-to-image")</code>	Sets the background of a container to be an image located at a specific address.
<code>border-color</code>	<code>hexvalue, rgb, color name</code>	Sets the color of a border on an element.
<code>border-style</code>	<code>dotted, solid, double dashed</code>	Sets the look of the border line.
<code>border-width</code>	<code>thin, thick, medium</code>	Places a border around an element and sets the thickness.
<code>border</code>	(shorthand)	Rather than listing border properties individually, you can group the values under the single <code>border</code> property (e.g., <code>border: thin solid black;</code>).
<code>clear</code>	<code>left, right, none, both</code>	Tells an element to ignore a float.
<code>color</code>	<code>hexvalue, rgb, color name</code>	Sets the color of text within a container.
<code>float</code>	<code>left, right, none</code>	Makes elements cling toward one direction or another.
<code>font-family</code>	<code>font names separated by commas</code>	Sets the fonts for a container element.
<code>font-size</code>	<code>px, pt, in, cm, em</code>	Sets the size of a font in a container in pixels, points, inches, centimeters, or ems.

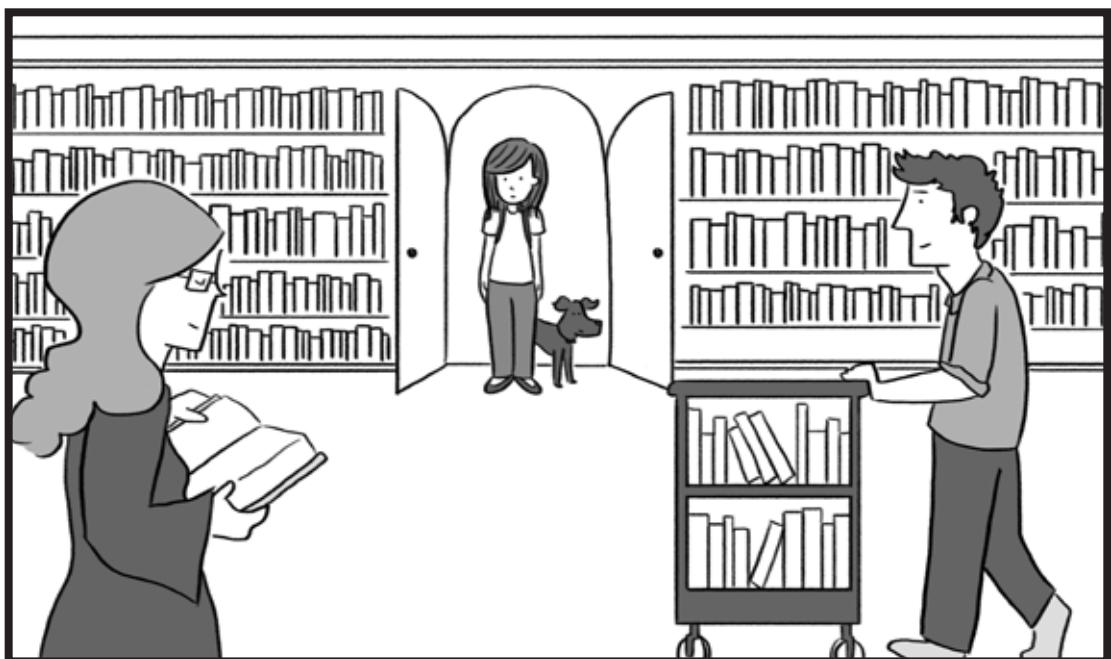
(continued)

Table 3-2: Common CSS Properties (continued)

Property	Value(s)	Description
font-weight	light, lighter, normal, bold, bolder	Changes the thickness of a font.
height	px, in, cm, %	Sets the height of an element.
margin	px, in, cm, %	Sets the margin between two elements.
margin-bottom	px, in, cm, %	Sets the bottom margin.
margin-left	px, in, cm, %	Sets the left margin.
margin-right	px, in, cm, %	Sets the right margin.
margin-top	px, in, cm, %	Sets the top margin.
overflow	hidden, scroll, visible	Sets what happens when the contents of a container are larger than the size of the container.
padding	px, in, cm, %	Sets the spacing between a container element and its contents.
padding-bottom	px, in, cm, %	Sets the bottom spacing between a container element and its contents.
padding-left	px, in, cm, %	Sets the left spacing between a container element and its contents.
padding-right	px, in, cm, %	Sets the right spacing between a container element and its contents.
padding-top	px, in, cm, %	Sets the top spacing between a container element and its contents.
text-align	left, right, center, justify	Aligns the text within a container element.
text-decoration	underline, line-through, none	Styles the text.
width	px, in, cm, %	Sets the width of an element.

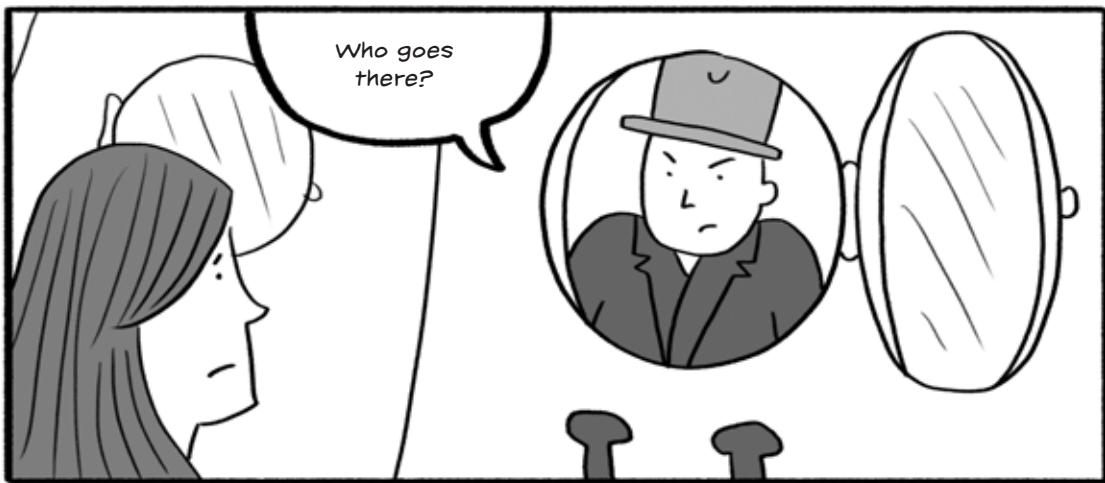
4

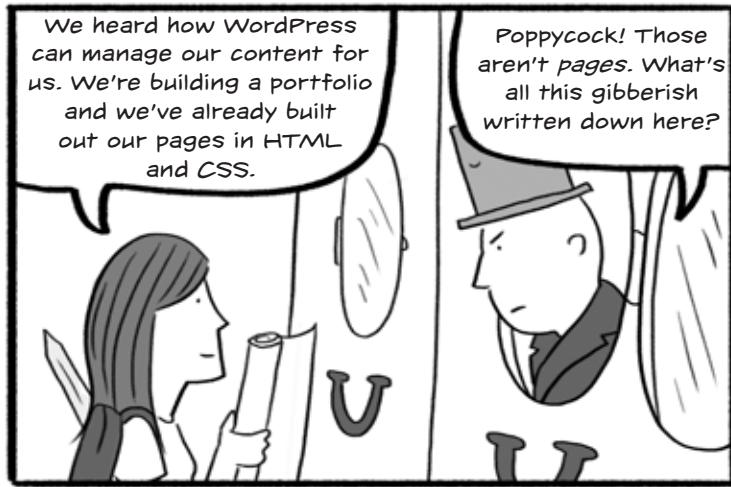
Kim Explores WordPress City

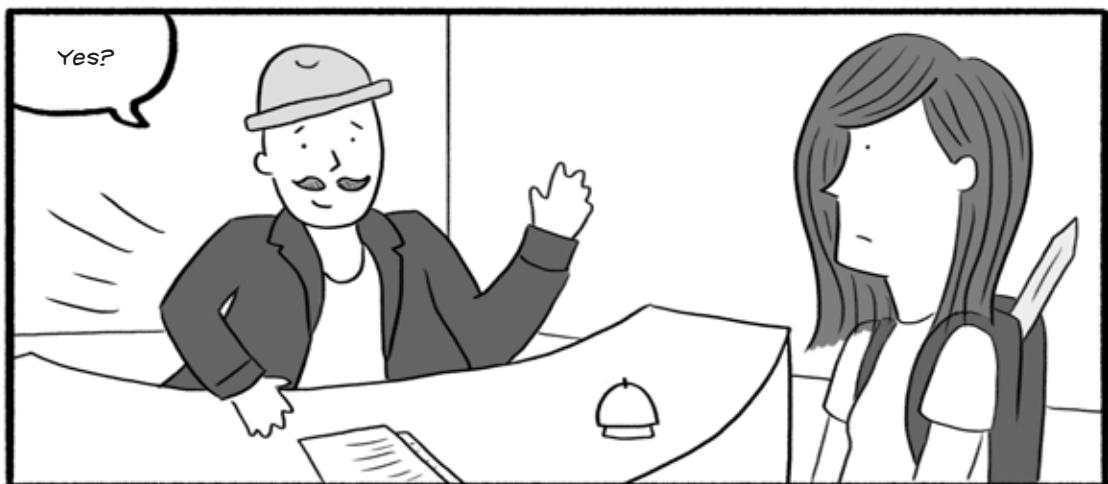
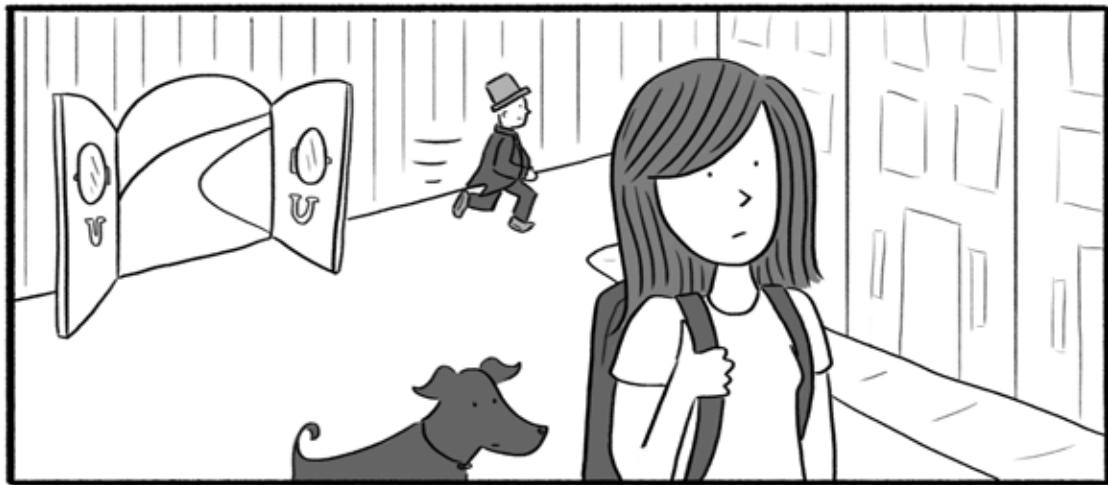


Welcome to WordPress City



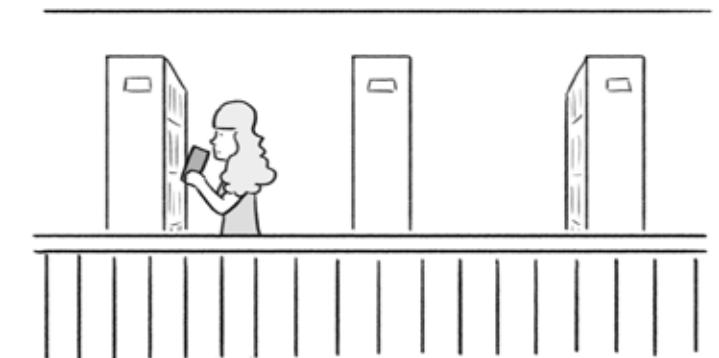


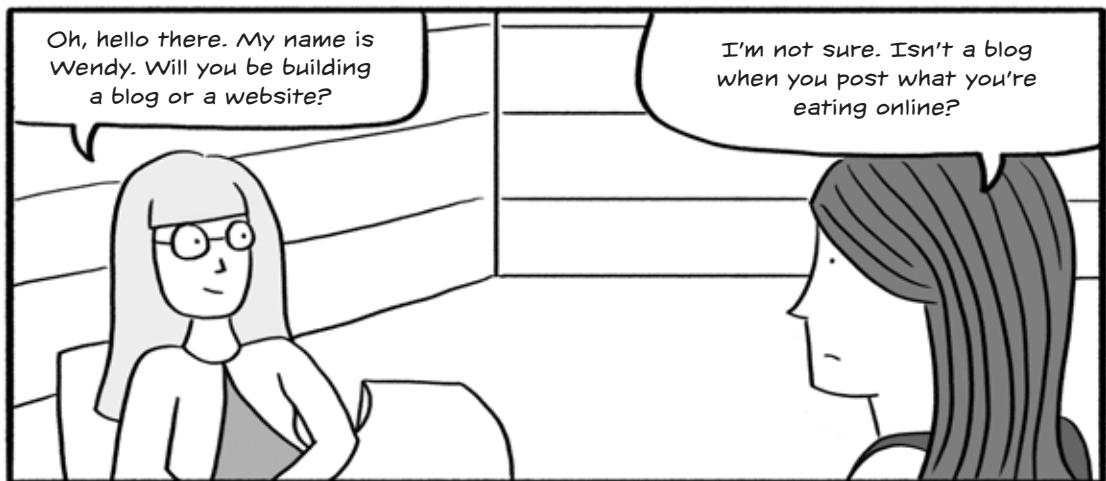
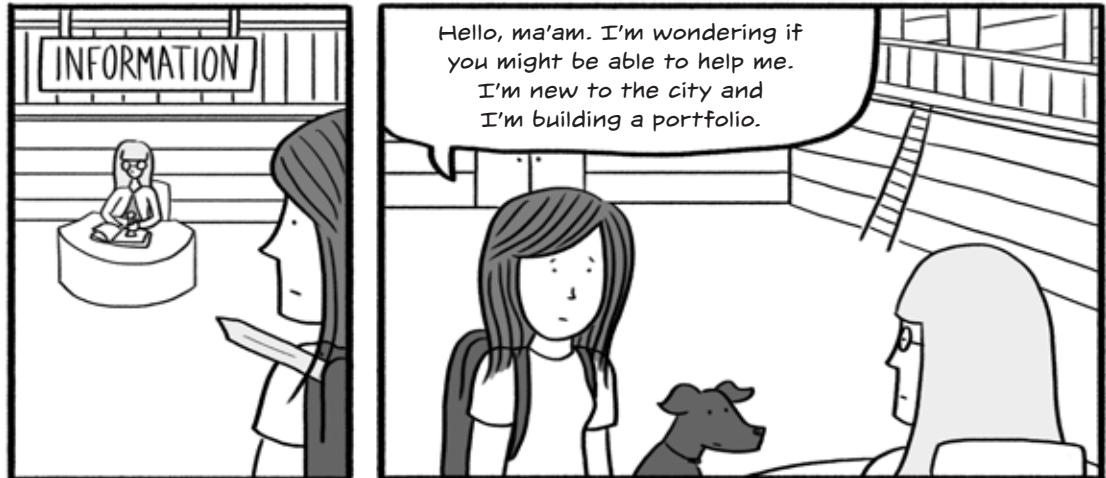






Kim Learns Her Way Around WordPress





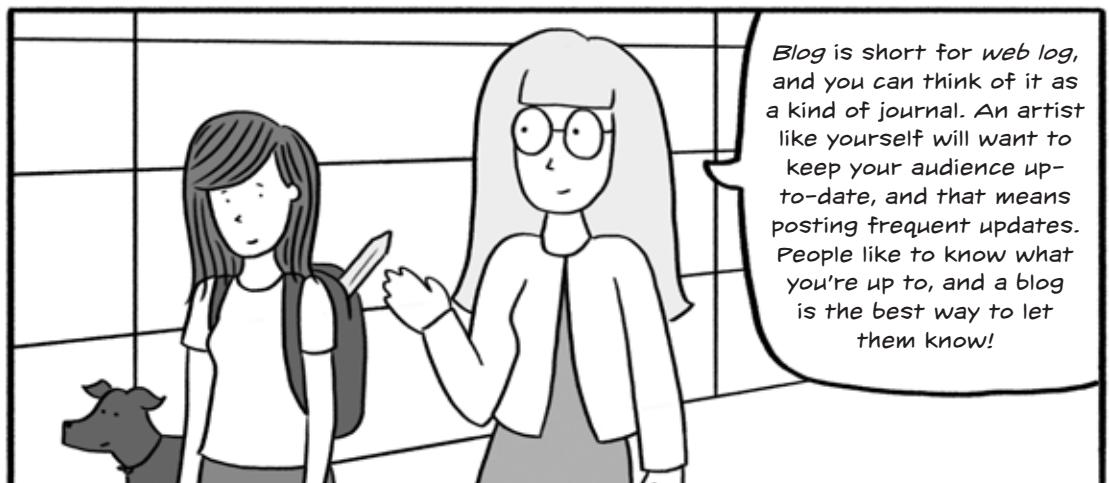




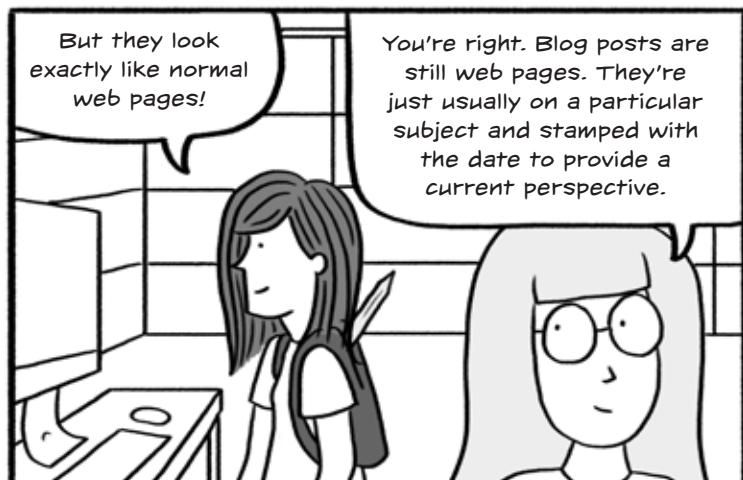
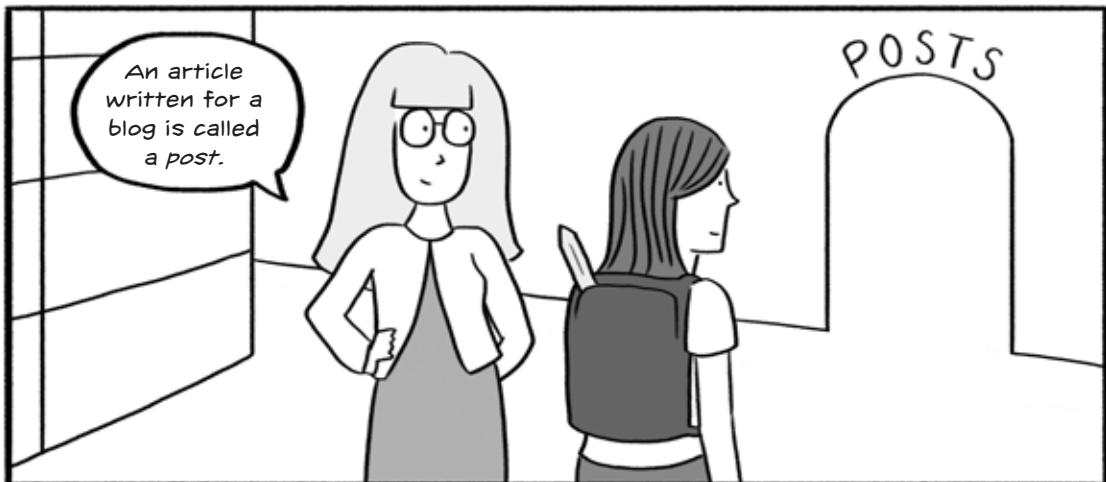
Some of these pages are static, meaning they don't change much at all. Think of your résumé. You keep it up-to-date, but you don't change it every day.

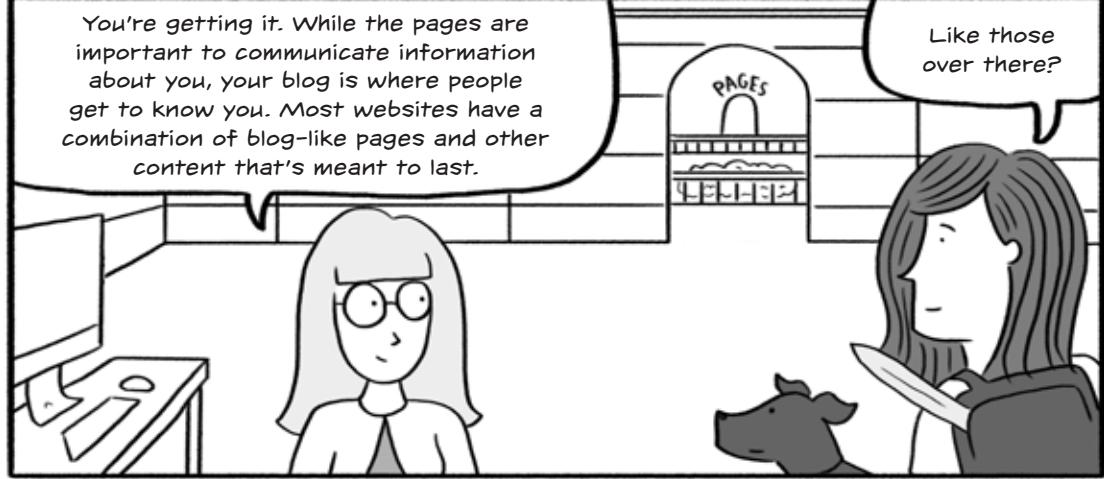


Other pages—short articles, opinions, even just photos—are more up-to-the-minute. Although you don't update your résumé every day, you'll probably want an area of your website to show off current projects and engage your audience.



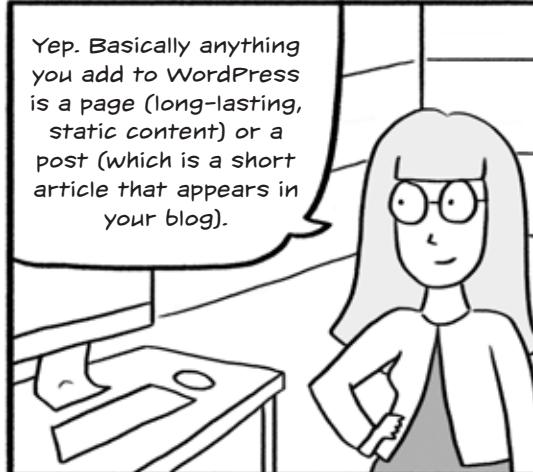
Blog is short for web log, and you can think of it as a kind of journal. An artist like yourself will want to keep your audience up-to-date, and that means posting frequent updates. People like to know what you're up to, and a blog is the best way to let them know!



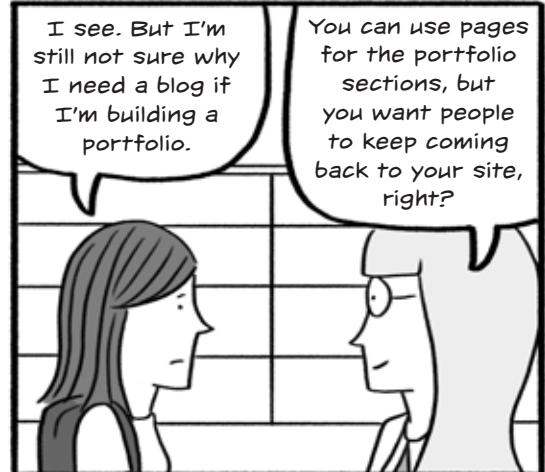


You're getting it. While the pages are important to communicate information about you, your blog is where people get to know you. Most websites have a combination of blog-like pages and other content that's meant to last.

Like those over there?



Yep. Basically anything you add to WordPress is a page (long-lasting, static content) or a post (which is a short article that appears in your blog).



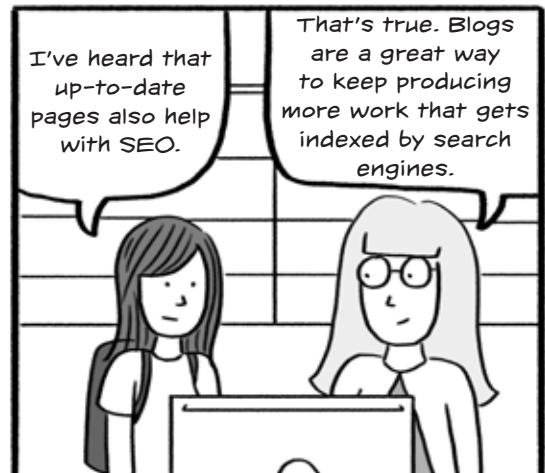
I see. But I'm still not sure why I need a blog if I'm building a portfolio.

You can use pages for the portfolio sections, but you want people to keep coming back to your site, right?



Well, sure.

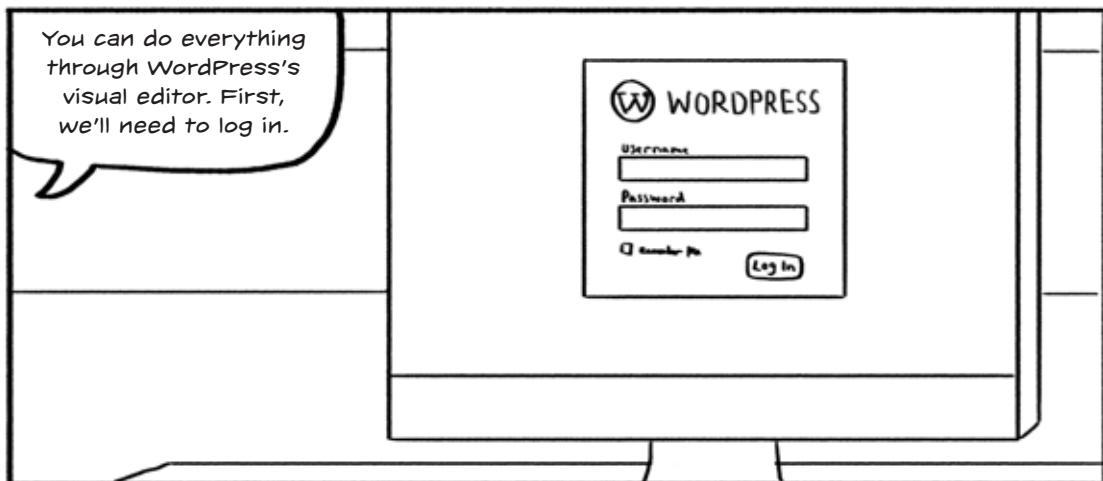
A blog is a great way to let your audience and potential clients know what you're up to--and keep them coming back.



I've heard that up-to-date pages also help with SEO.

That's true. Blogs are a great way to keep producing more work that gets indexed by search engines.

Kim Builds Her First Page in WordPress



Think of the Dashboard as the control panel for your whole site. It's not just for file management like FTP-- it's also the place where we actually create content like pages.



Dashboard



So when we're in WordPress, we don't need our code editor anymore?

Nope! You can do everything within the Dashboard! We'll use the visual editor here.



The "visual editor"?

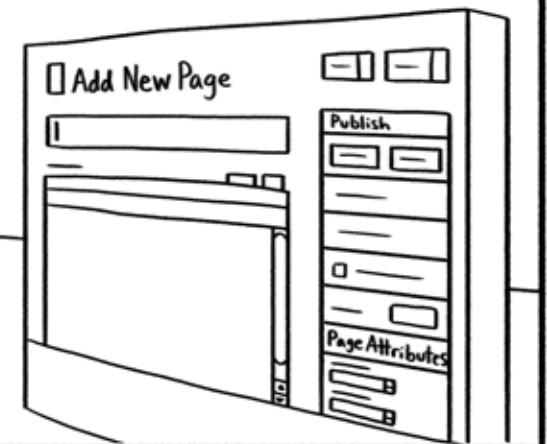
Yep. It's a great and simple way of creating web pages or blog posts in WordPress.

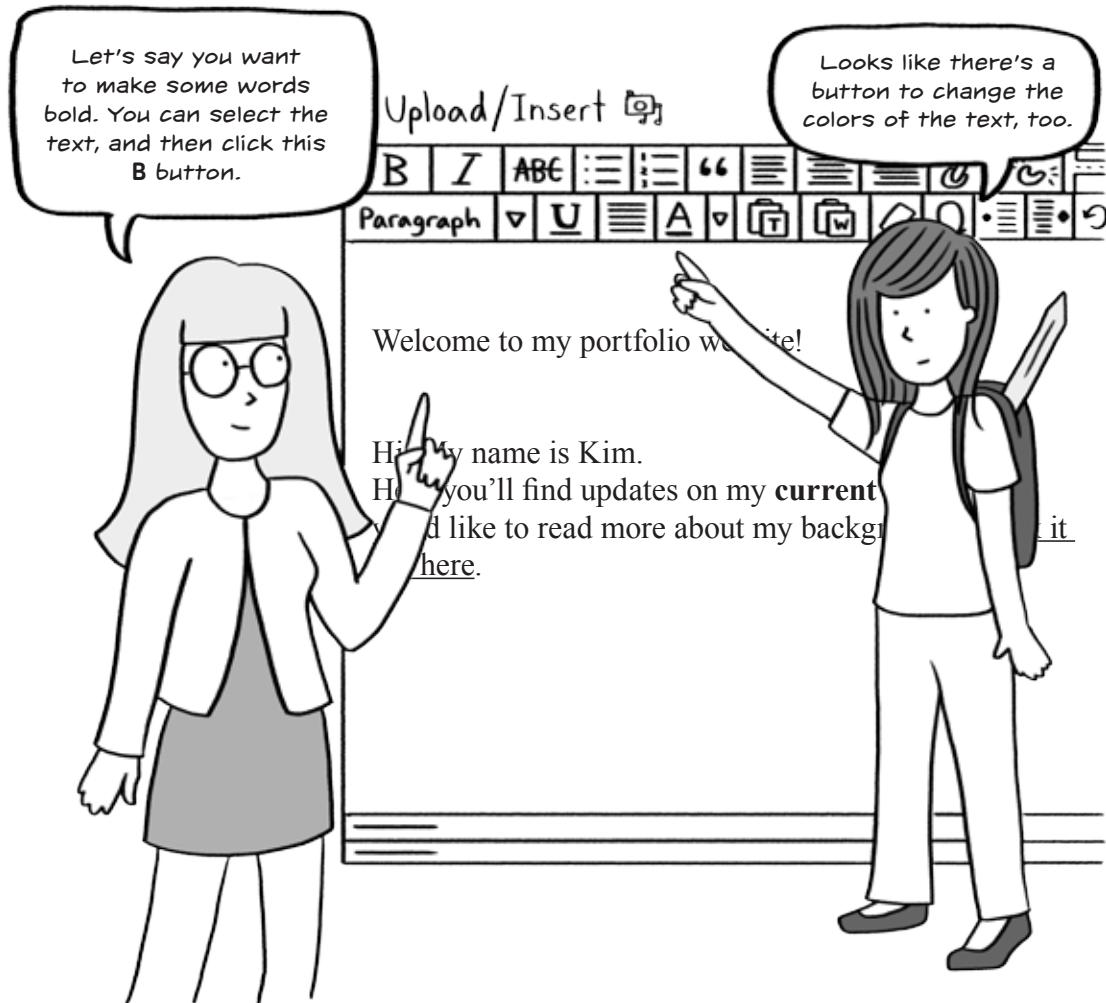
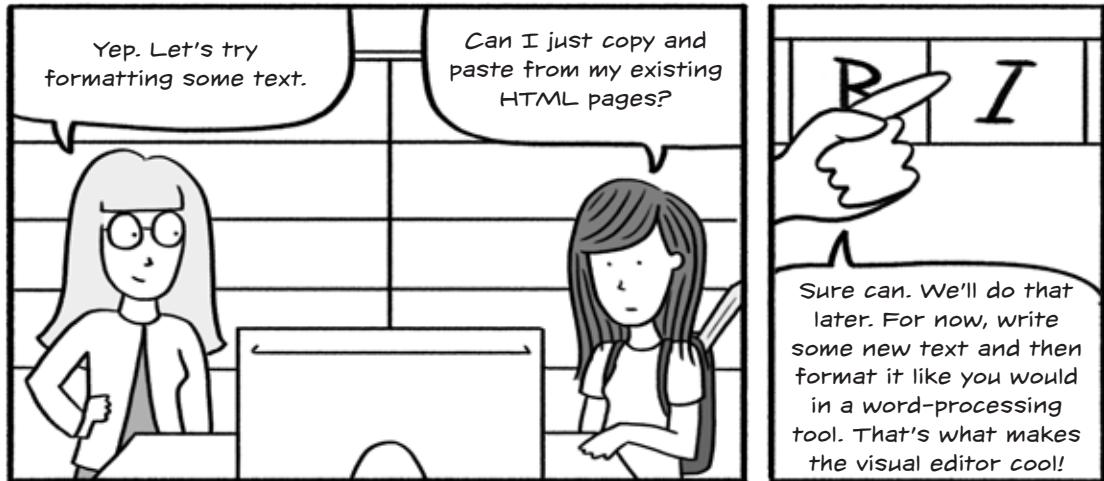


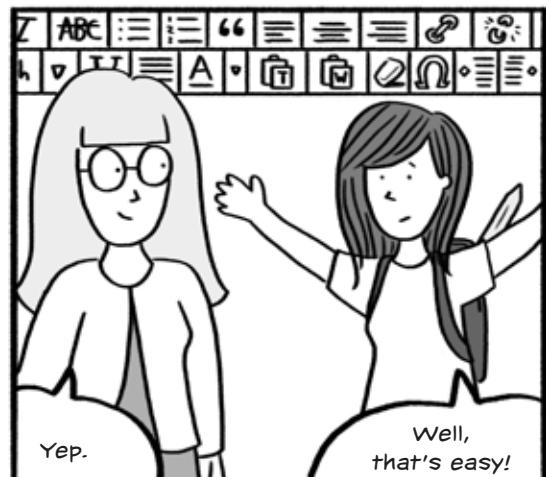
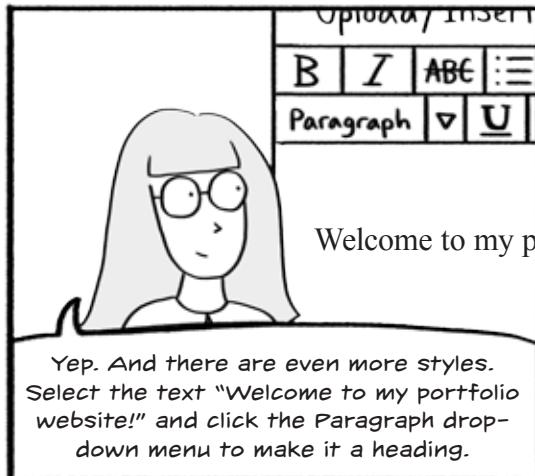
Look at all those buttons. This looks like a word processor.



Add New Page



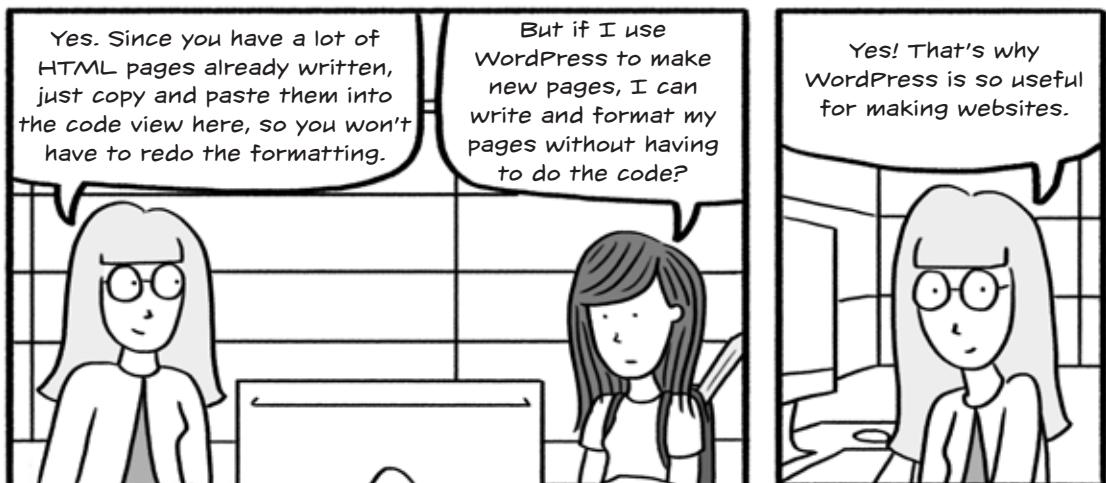
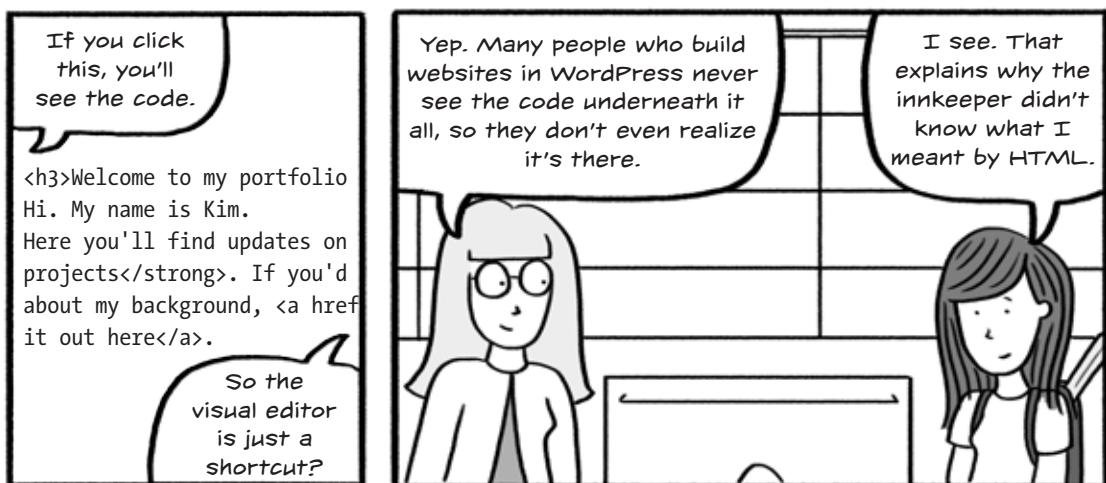
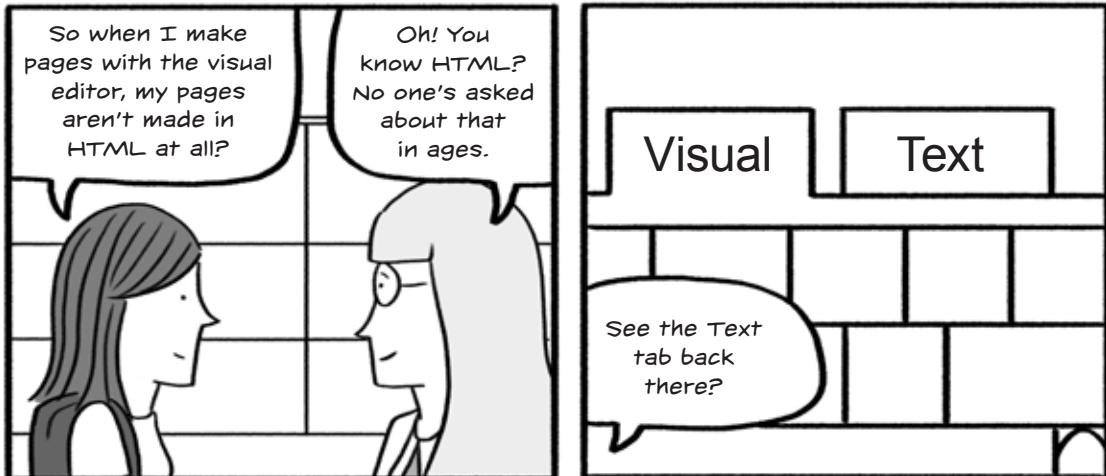




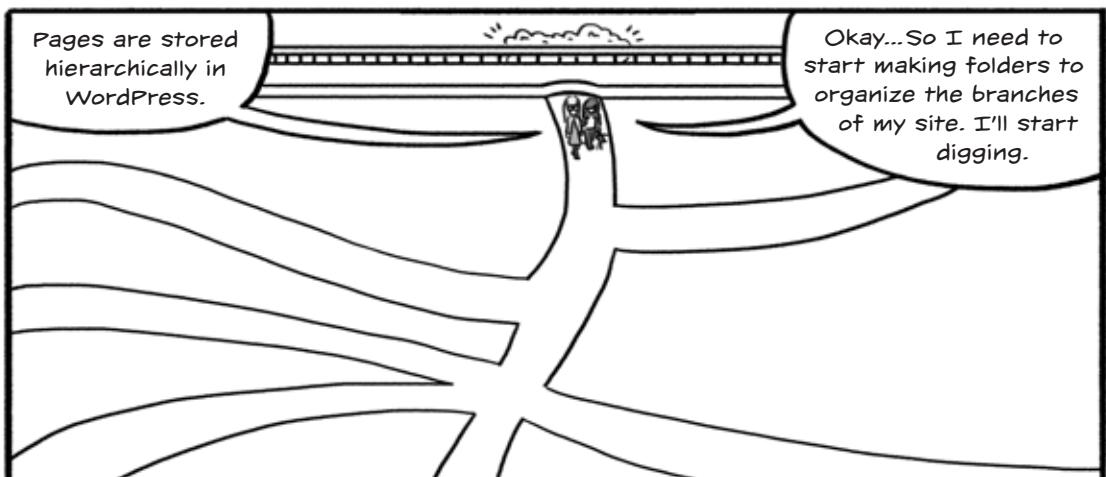
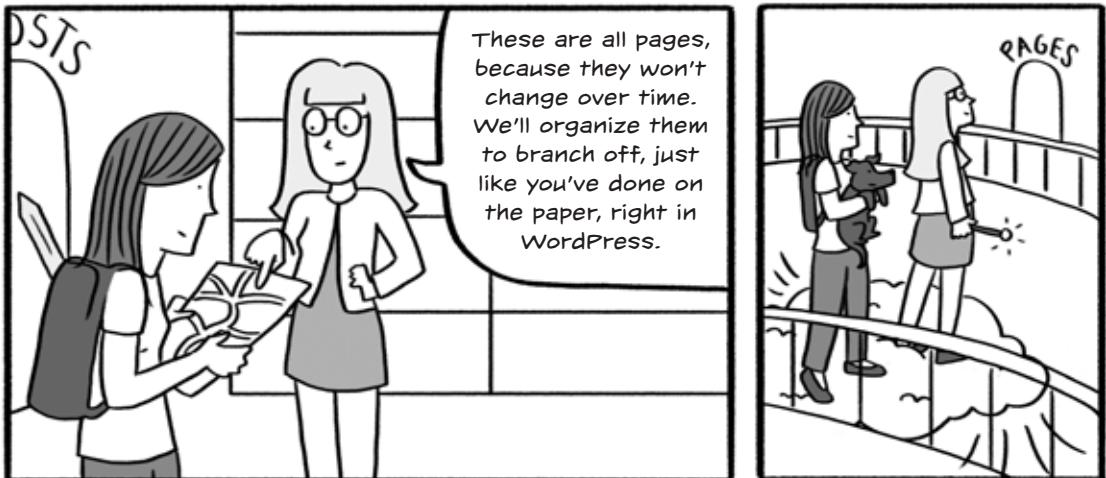
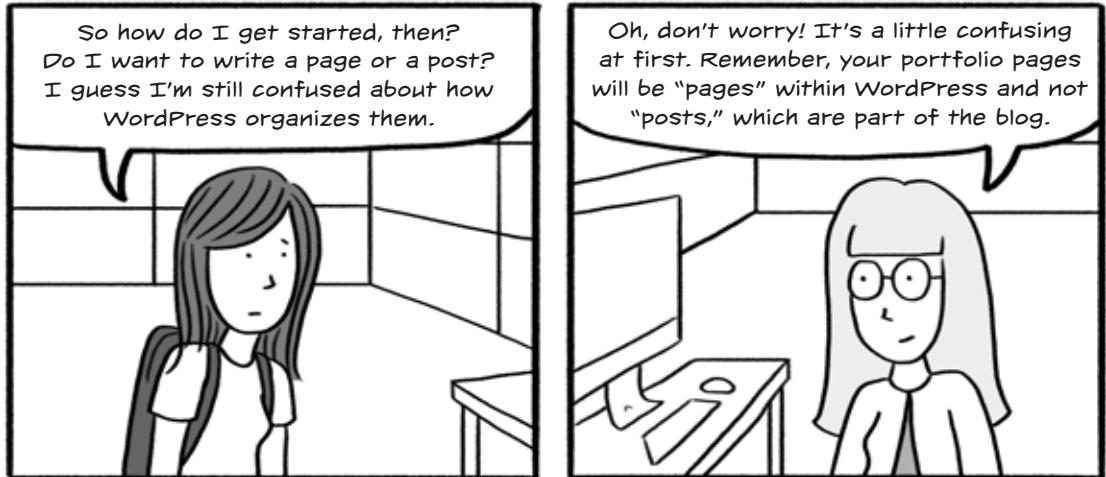
Welcome to my portfolio website!

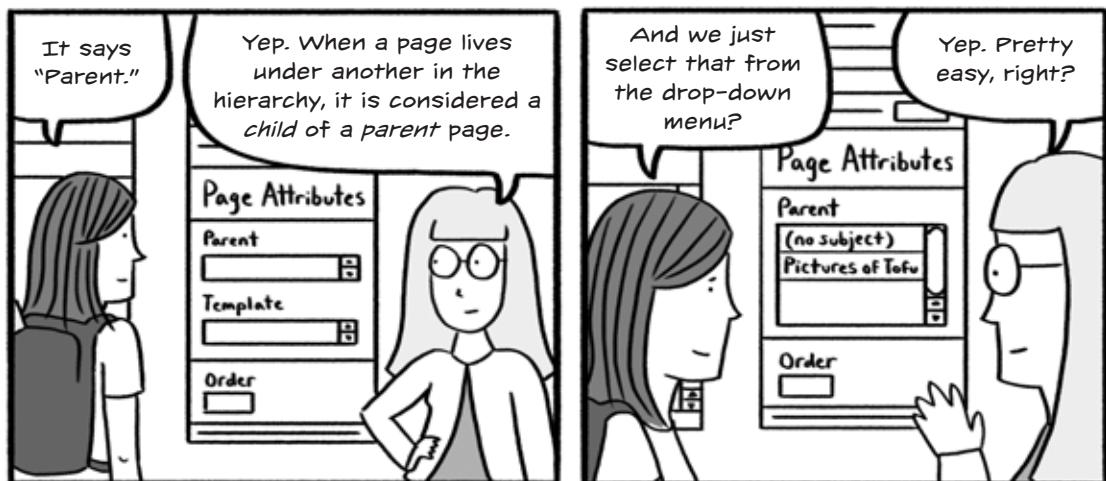
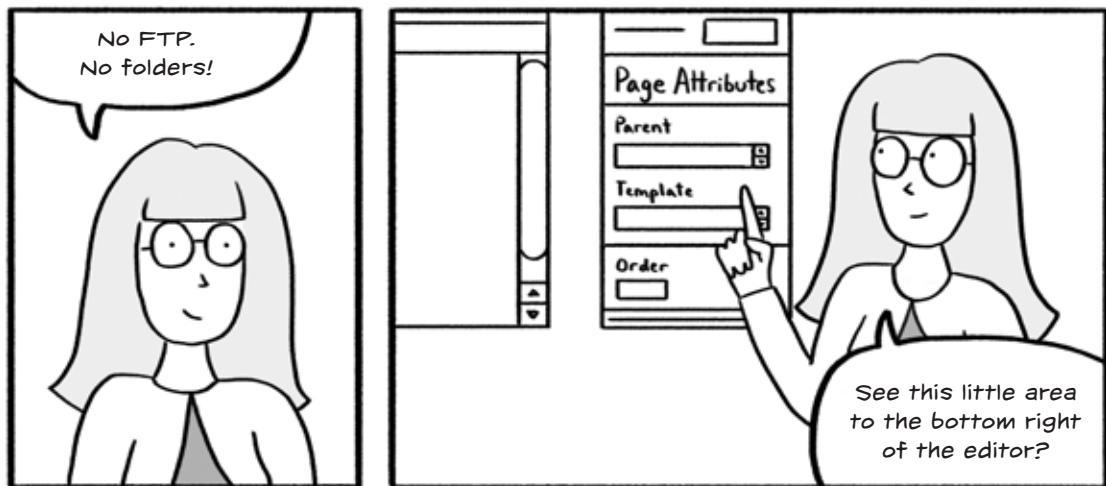
Hi. My name is Kim.

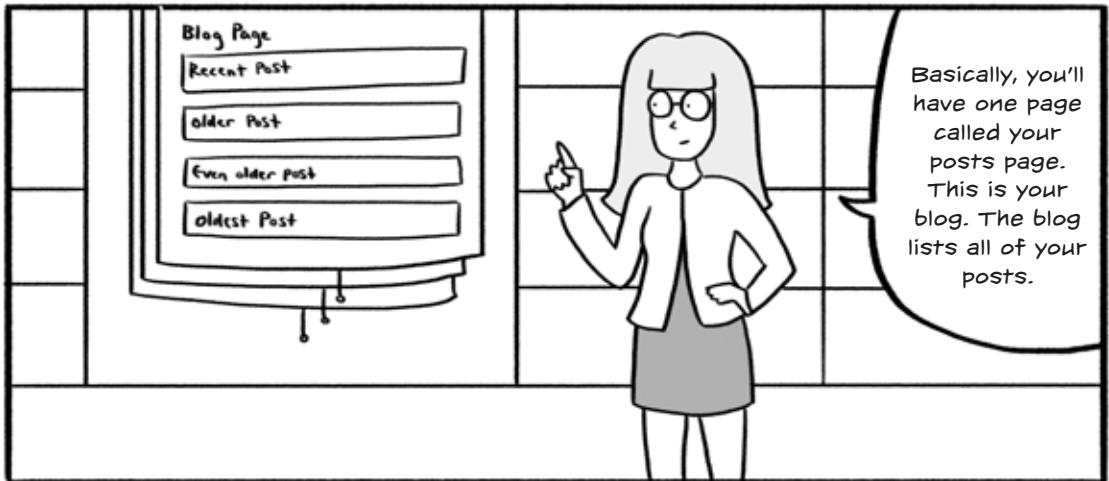
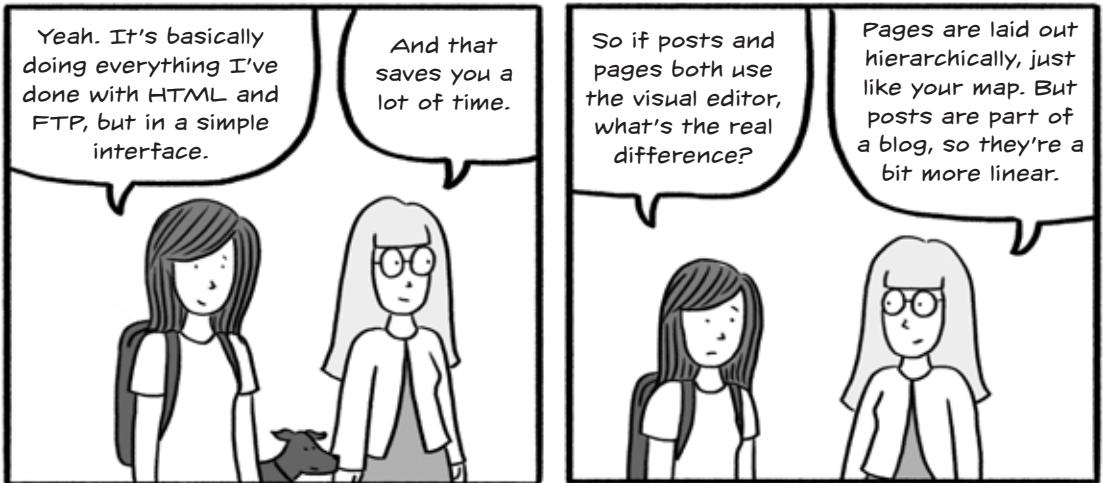
Here you'll find updates on my **current projects**. If you'd like to read more about my background, check it out here.



Kim Organizes Her Site









Oh, I see. There's one category called "Uncategorized."

Yep. You can also have more than one category attached to a post.

All Categories	Most Used
<input type="checkbox"/> Uncategorized	
<input type="checkbox"/> Book Reviews	
<input type="checkbox"/> Art Projects	

+ Add New Category

If you want to create another one called "Kim's Daily Drawings," just click the Add New Category button.





Tags are a way to further refine and group your posts by subject. Categories are broader and tags are more specific. When you publish your blog post, the tags and categories become links that a user can click to see all related posts on that topic.

+ Add New Category

Tags

Add

Got it. So pages are organized just like a traditional website, and posts are organized by subject and date to remain more topical?

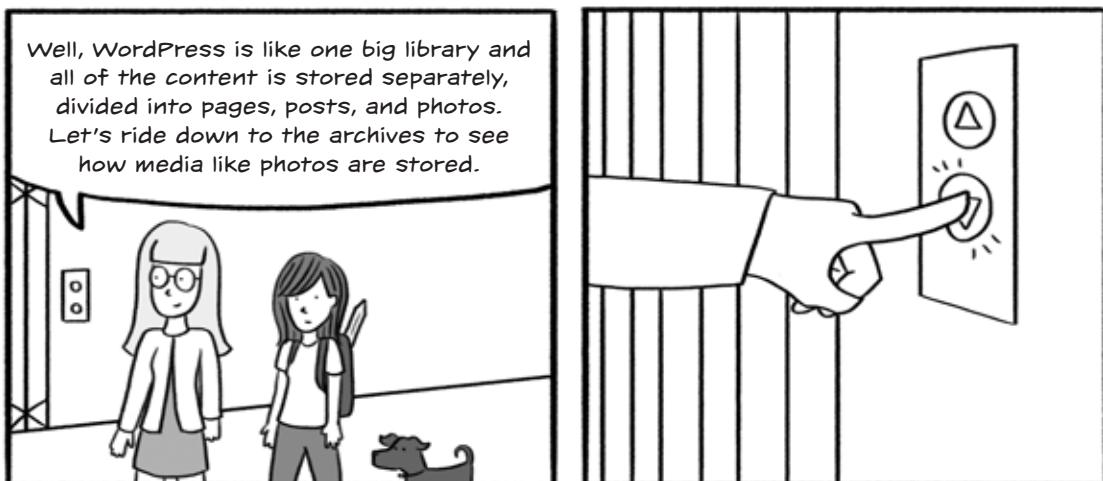
A woman with long dark hair, wearing a white shirt, looks slightly confused or thoughtful.

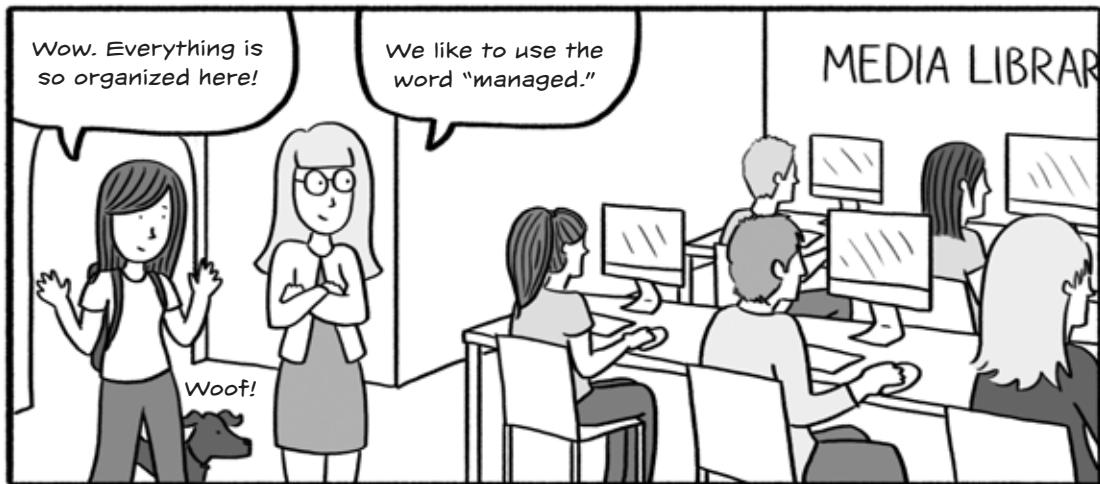
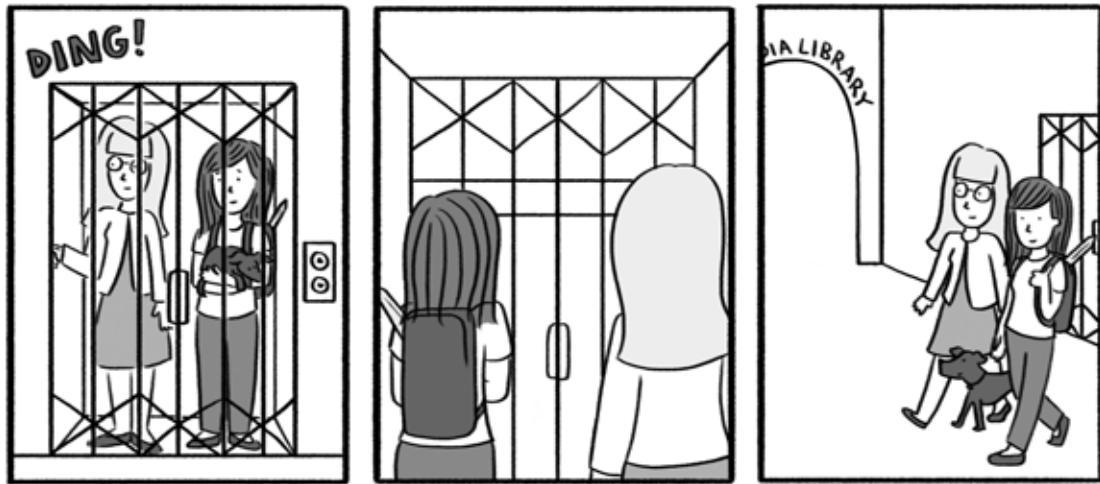
And these categories and tags are kind of like my keywords that help me find my older blog posts?

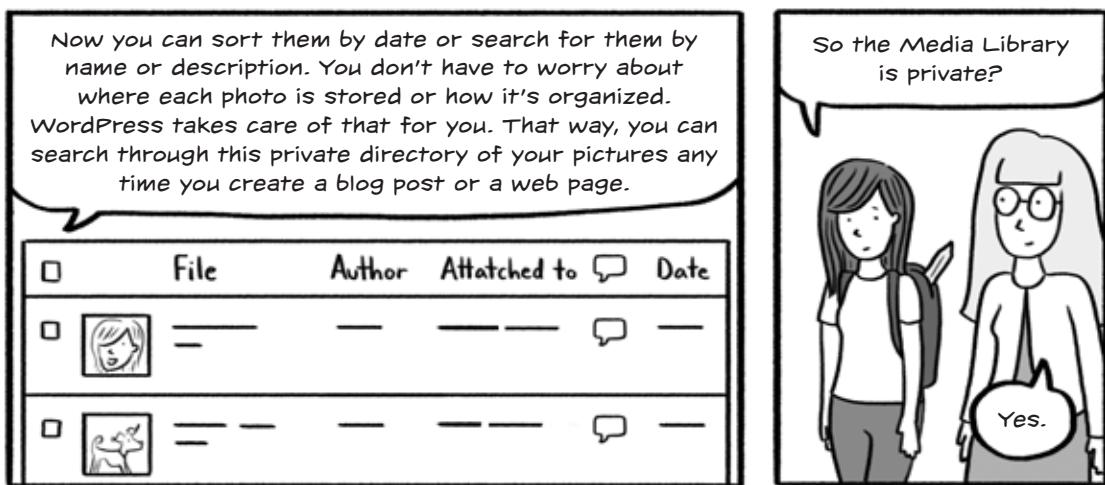
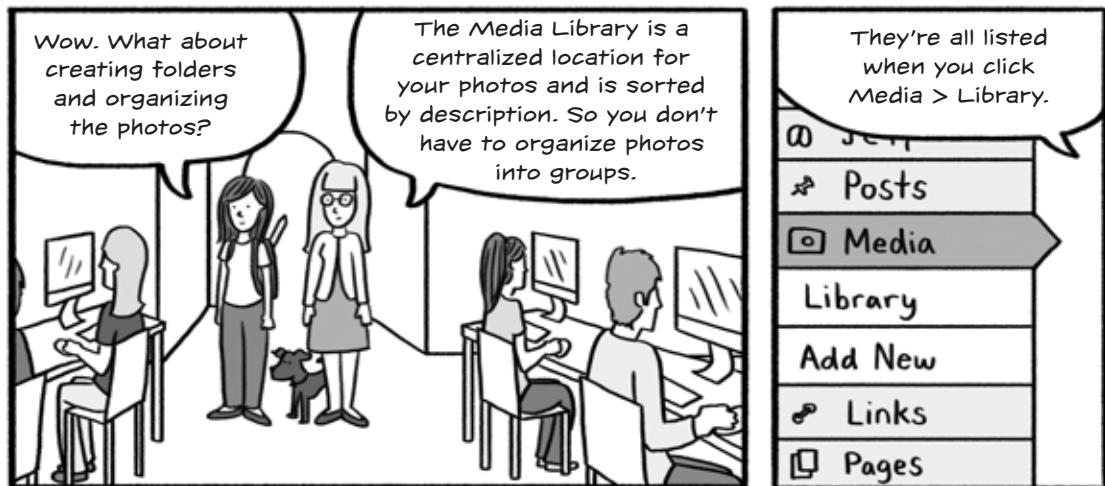
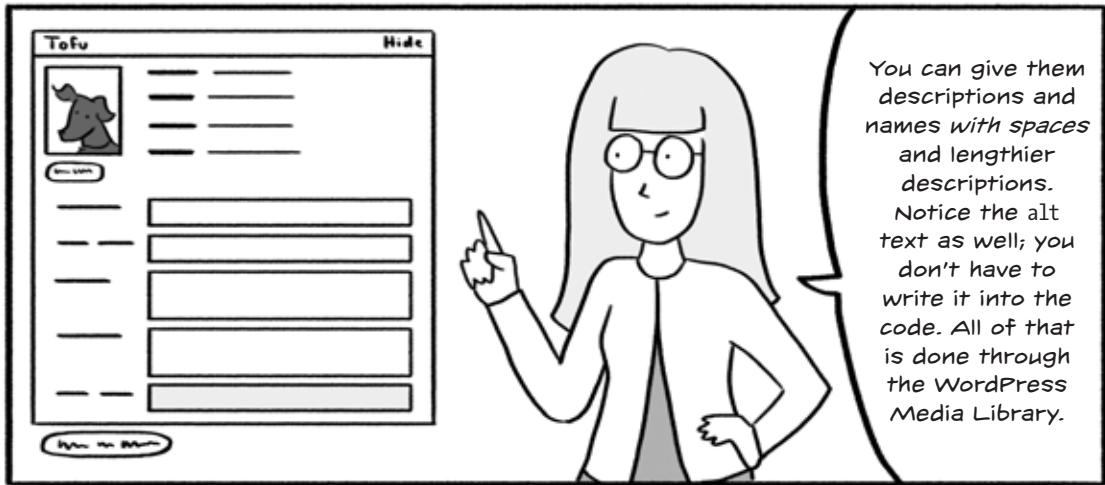
Precisely! By using words that identify your posts, you'll ensure that your blog readers can find your content.

BARK!

Kim Adds Photos and Other Media to Her Site







So how do I get the photos to show up when I want them to go into a page? I'm going to have lots of pages with pictures since this is my portfolio. And I want to make sure people can see them, too!



Great question! Let's go back to the visual editor. See here when we're editing a post or a page, we have this button that says Add Media.

A detailed screenshot of the WordPress media library. It shows a thumbnail of a dog named "Tofu", file details like name, type, date, and dimensions, and fields for title, alternate text, and caption. Buttons for "Show" and "Hide" are visible at the top right.

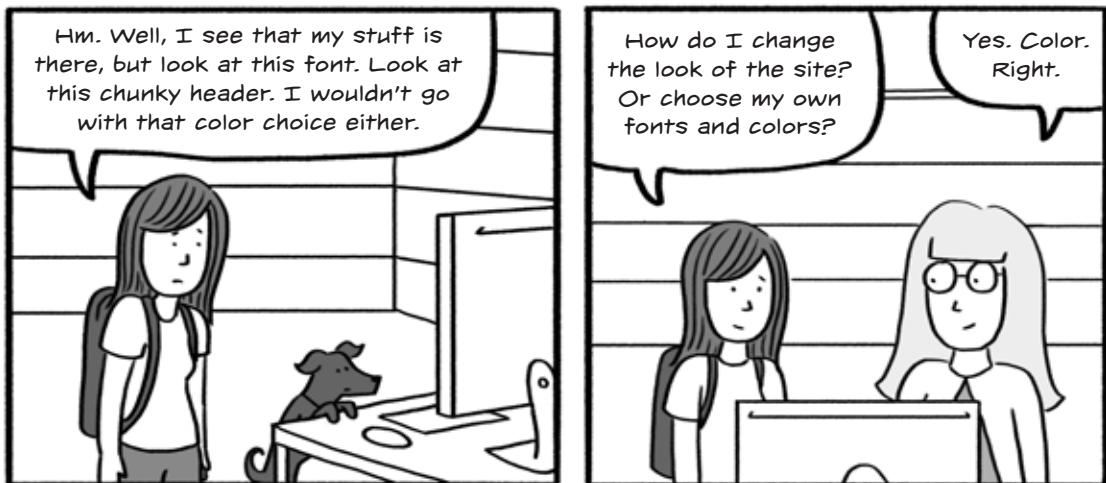
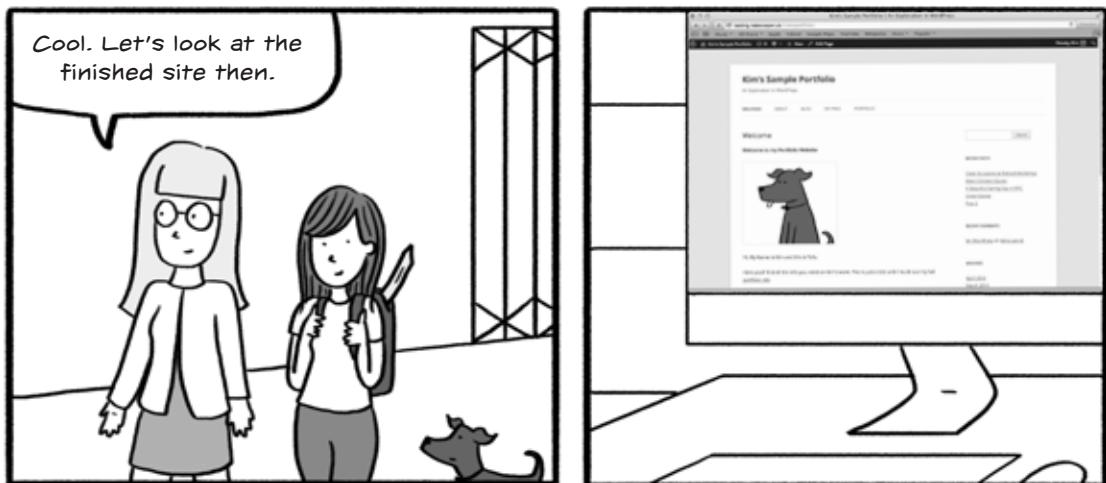
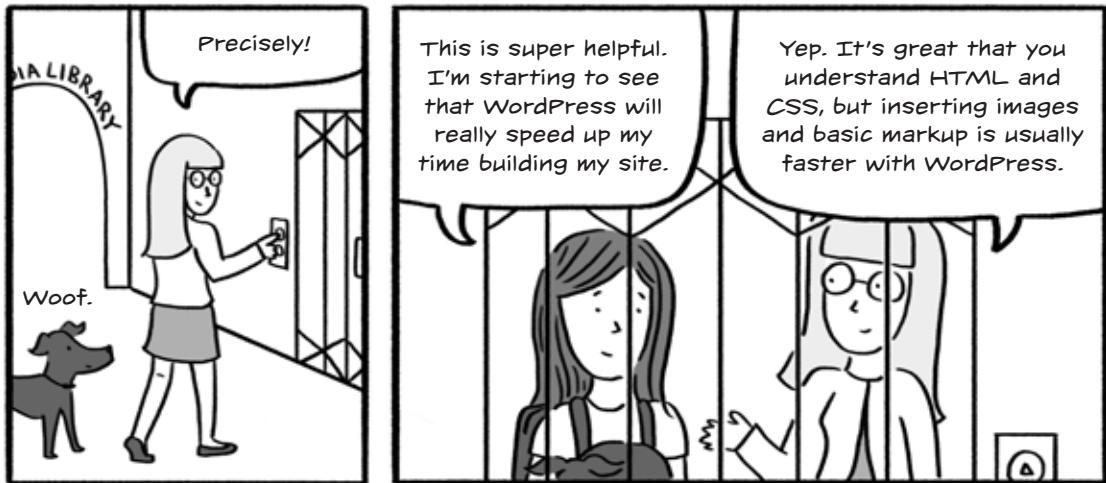
At this stage, we can either upload new media to insert into our blog post or we can click the Media Library tab. Remember, that's where all of our pictures are stored. Once I've found the image I'm looking for, I can choose to change details, like the description or alt text. I can even resize it. If I choose Medium, WordPress will show a smaller version of the image without changing the original.

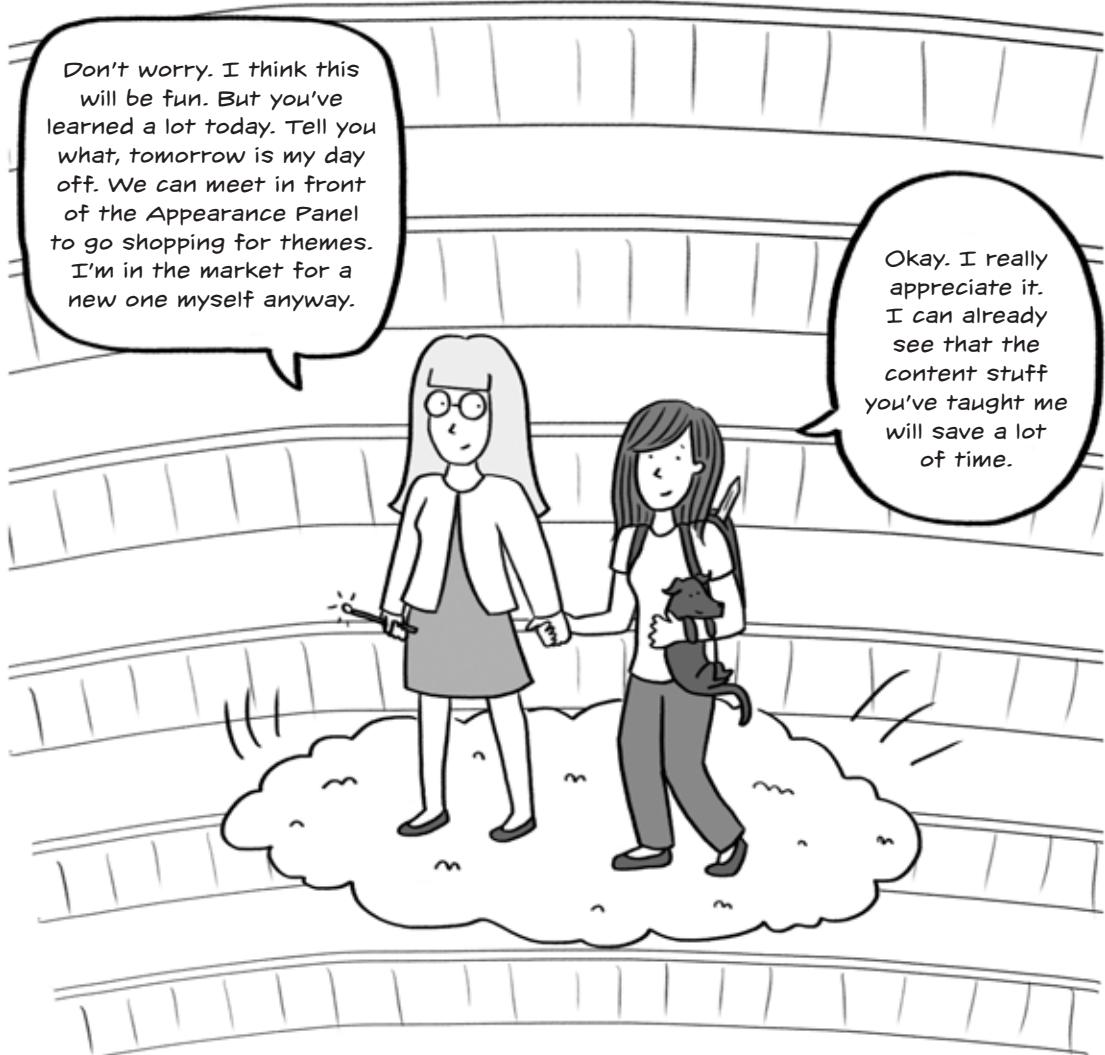
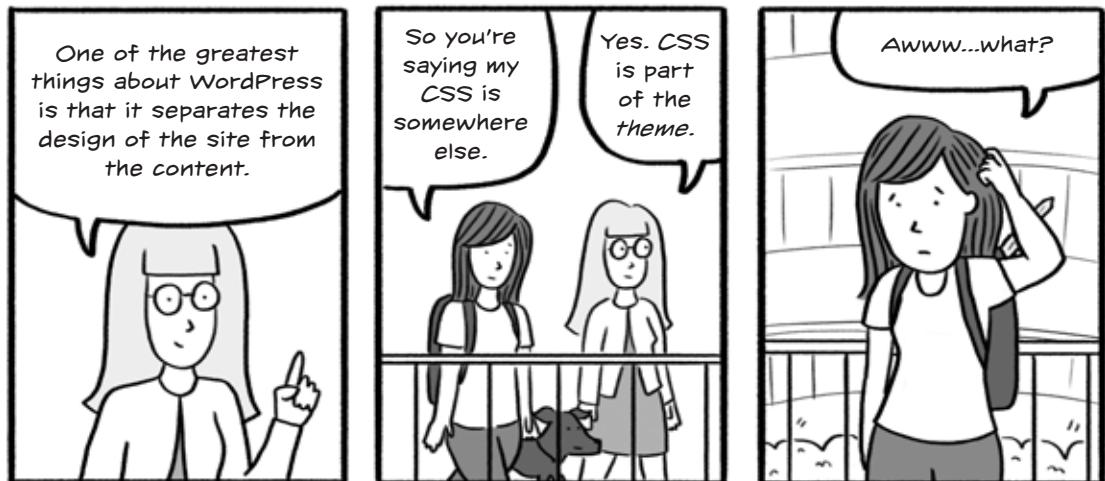
That's a pretty neat feature. Some of my pictures are pretty big on the screen, and I might want them to fit into a smaller area on certain pages.

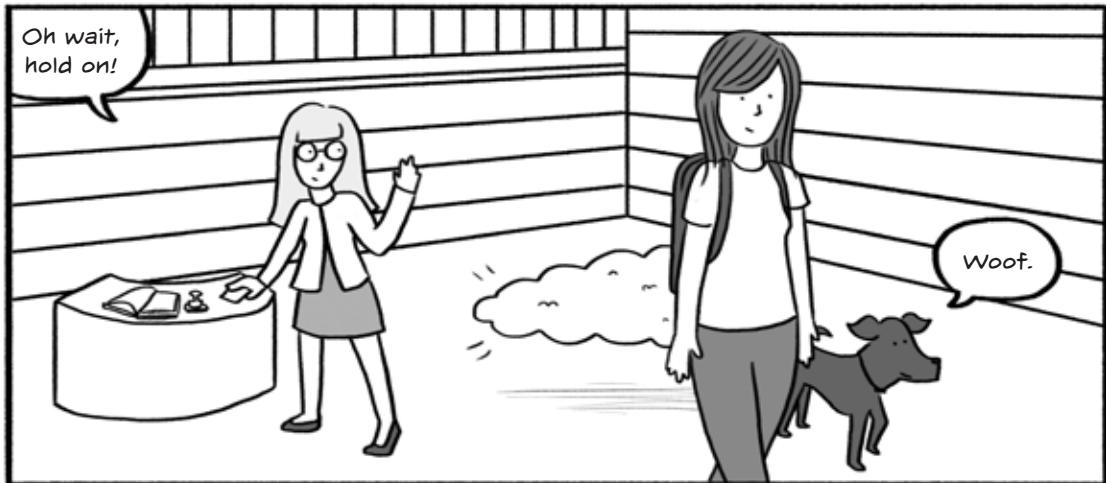
A screenshot of the "LINK URL" section of the media library. It includes fields for Alignment (radio buttons for None, Left, Center, Right) and Size (radio buttons for Thumbnail, Medium, Large, Full Size). A large "Insert into post" button is at the bottom.

Once you're ready, just click Insert into post.

Great! Oh, I can even choose to have it wrap around the text by using the align buttons.







Getting Started with WordPress

WordPress is a powerful blogging tool and *content management system*, or CMS. A CMS like WordPress automates a lot of the work in creating web pages, like uploading photos and organizing content. WordPress also eliminates the need to hand code individual web pages or blog entries!

Unlike in Chapters 2 and 3—where you could test out your HTML and CSS pages on your computer—to start building your own WordPress site and follow along with this chapter, you’ll first need a *host* (discussed in Chapter 5) or you can register on WordPress.com for a free site. Of course, there’s no such thing as a free lunch. The free account on WordPress.com has limited functionality, and you won’t have your own domain name, either: You’ll have to choose a domain like `<yourname>.wordpress.com`. There are some upgrade options for WordPress.com that allow you greater flexibility (like adding a custom domain) for an additional cost.

For our purposes, we’ll focus on using a self-hosted version of WordPress (sometimes called WordPress.org). This will allow us to work with some more advanced features, like installing themes and plugins, with no limitations. If you want to set up WordPress on your host in order to follow along exactly with this chapter, just hop ahead to “A Note on Buying WordPress Hosts” on page 243, and follow the steps there. Don’t worry, we’ll wait here.

One big advantage of using WordPress is that it separates the content from the structure *and* the style of the site. Think back to when we created web pages using HTML. All of the content (the words on the page) and the markup (the various `<tags>`) were in a single document. This means that if you wanted to make a change to the words on your page, you’d have to navigate through a document full of `<tags>`. WordPress makes editing the words and media on a page a lot simpler because it shows you just the content, and hides all of the markup. And if you want to make changes to the style of your website, there’s a whole separate feature for doing that, called a *theme*. That’s something like the CSS for an HTML page.

All of these conveniences let you focus on the really hard part of making a cool website—writing interesting content without worrying about markup! It’s really no wonder that WordPress is so popular. Let’s dig in.

Logging In and Out of WordPress

When you install WordPress (or sign up for a WordPress.com account), you’ll need to create an administrator username and password. These are the keys to the kingdom. An administrator has full access to edit any content, post new pages, or delete the whole site. Every WordPress site needs at least one administrator, though you can have more than one, too.

Once you’ve gotten this information, log into the WordPress Dashboard (see Figure 4-1). You can access your Dashboard by going to `http://<your-wordpress-address>/wp-admin/`. To save some time, bookmark your Dashboard in your favorite web browser so that you can log in again easily. You’ll be using it a lot!

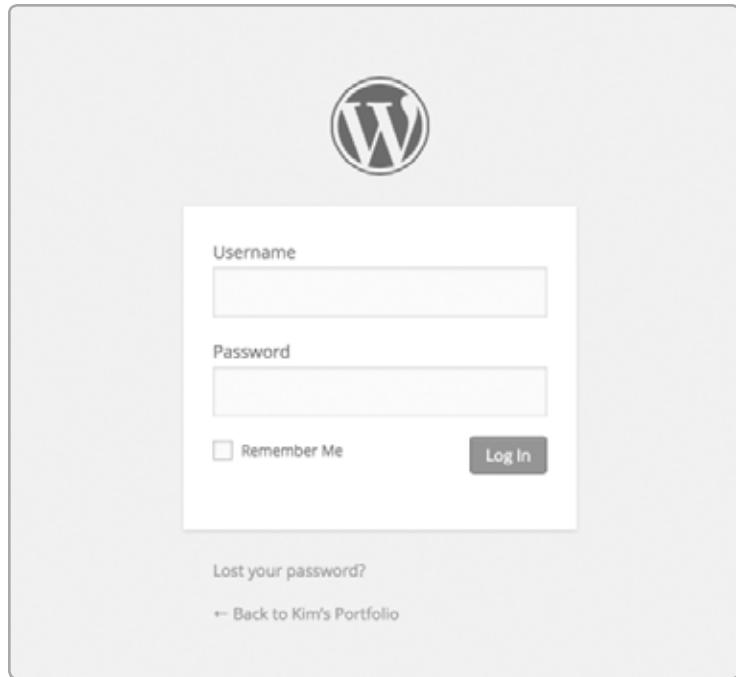


Figure 4-1: The Login screen

The WordPress Dashboard, which looks something like Figure 4-2, is the *backend* for your new WordPress website. This is the management tool—how you'll add something to your site or make changes. Only you, and others you've created accounts for, can see the backend of the site.

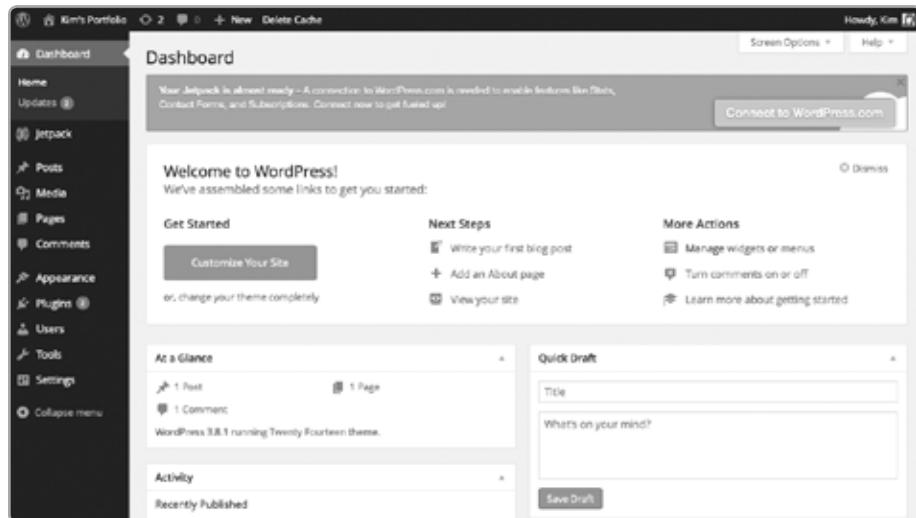


Figure 4-2: The WordPress Dashboard. Use the tabs on the left to manage different areas of your site.

Everyone else visiting your site sees the *frontend*, which will have blog posts as well as other content on it. For now, that probably looks something like Figure 4-3.

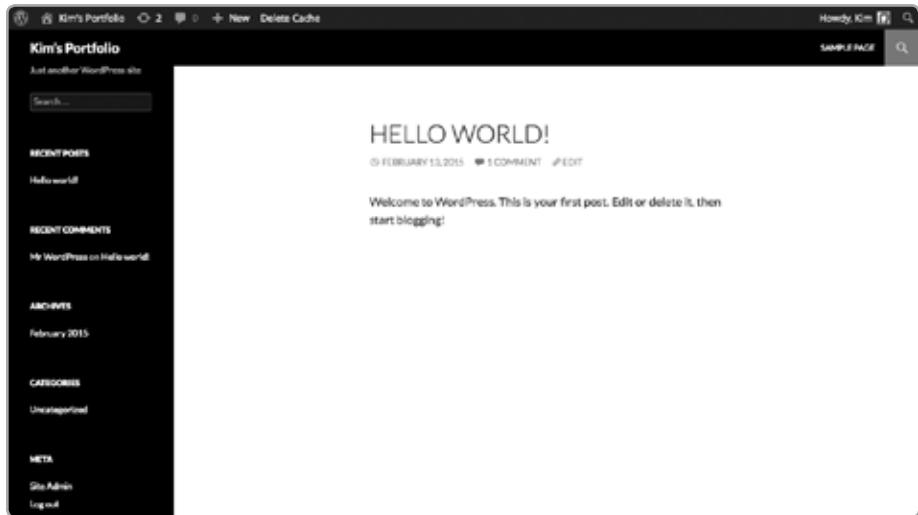


Figure 4-3: The frontend of your site. This is what visitors see. As you make changes in the Dashboard (the backend of WordPress), those changes will be reflected here in the finished site. Your blog will look different depending on which WordPress theme is active. This figure shows the Twenty Fourteen theme.

NOTE One thing to keep in mind is that once a WordPress site is set up, it is immediately accessible to anyone who has the address. While you can create draft posts that aren't public in WordPress, some of the activities in this chapter involve posting to the Internet. Even though the site is "live" on the Web, don't be too concerned about privacy at this stage. It's pretty unlikely that someone will find the site without you providing the exact address. It's quite easy to delete all the test pages we'll be creating.

Forget Where to Log In?

If you forget the URL where you log into your site, try adding /wp-admin at the end of the site and then visiting that page. So, for example, if you installed WordPress at <http://<your-site>>, to log in you'd go to the address <http://<your-site>/wp-admin/>.

Check Your Work as You Go

As you make pages and create content on the backend, you'll probably want to see how things appear to regular visitors of your site. While you're logged in as an administrator, you should see the WordPress admin bar across the top of the window (see Figure 4-4).



Figure 4-4: The admin bar

In the Dashboard, click the site's name to switch to the frontend. Our site is called *Kim's Portfolio*, so we'd just click that. Our current username is *Kim*. If you're on the frontend and want to start adding content, just use the drop-down menu and select **Dashboard** to switch back to the backend (see Figure 4-5).

On the right side of the admin bar is a menu that will allow you to log out of the site (Figure 4-6). Logging out is super important if you're using a public computer! You don't want anyone else editing your site.

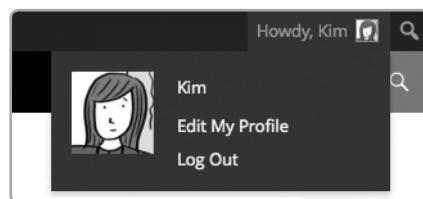
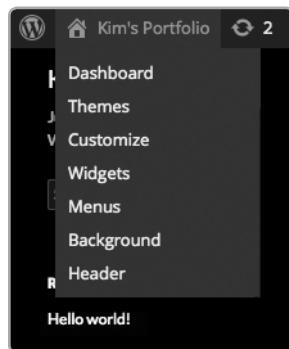


Figure 4-5: Use the drop-down menu on the left to switch between the frontend of the site and the backend (Dashboard).

Figure 4-6: The drop-down menu on the right allows you to edit your profile or log out of the site.

Enough flipping and flopping between frontend and backend; let's actually create some new stuff on our site! Let's enable the Twenty Fourteen theme for now so that your experience will mirror what you see in the book. Go to your Dashboard and click **Appearance and Themes** from the left-hand side. You should see the Theme Chooser, which we'll cover in "Changing the Appearance: Theme Basics" on page 193. For now, just make sure that Twenty Fourteen is the active theme. If it is not, scroll down to the Twenty Fourteen theme and click the **Activate** button.

WordPress Content: Posts and Pages

WordPress has two basic types of content: *blog posts* (or just *posts*) and *pages*. They both can handle the same kinds of content: text, links, images, video, and so forth. Because WordPress was designed as a blogging tool, the first thing you see, by default, when you visit a WordPress site is a list of all of the blog posts. Posts are organized by date, just like entries in a journal.

On the other hand, when you add a new *page* to your site, like an “About the Author” or “Contact Us” page, it stands alone and stays put. It wouldn’t make too much sense for that kind of information to be a blog post, buried under the latest news.

In fact, pages are more important than blog posts in another way: When you create a page, a link to that page usually gets added to the *navigation menu*—in the Twenty Fourteen theme, that’s the horizontal bar with links that shows up near the top of every page (see Figure 4-7).

Blog posts are just a series of short entries accessible from the posts page (see Figure 4-8).



Figure 4-7: The navigation menu is where pages show up when you create them. It lets visitors navigate the most important sections of your website. You can always remove these links later.

A screenshot of a WordPress dashboard. On the left, there's a sidebar with various navigation links: "Kim's Portfolio", "Just another WordPress site", "Search...", "RECENT POSTS" (listing "Posts 3", "Post 2", and "Hello world!"), "RECENT COMMENTS" (listing "PV WordPress on Hello world!"), "ARCHIVES" (listing "March 2015" and "February 2015"), "CATEGORIES" (listing "Uncategorized"), and "META" (listing "Site Admin" and "Log out"). The main content area shows three blog posts: "POSTS 3" (published March 31, 2015), "POST 2" (published March 31, 2015), and "HELLO WORLD!" (published February 13, 2015). Each post has a snippet of its content and edit/delete links.

Figure 4-8: Unlike pages, your blog posts usually aren’t shown in the menu for your site. Posts are stored chronologically on your posts page. By default, the posts page is the first page on your site.

The difference between posts and pages is one of the simplest yet most important things to understand about building a site using WordPress. Remember that pages are for standalone content, and posts are for blog articles.

Plan Your Site

While you don't need a good plan when you're just getting started and experimenting with WordPress, it's a good idea to map out the structure of your website when you start adding content. Begin by thinking about making a good first impression—which page do you want visitors to see first? WordPress calls this the *front page* of your site. It can either be a blog page or a landing page (see “Customized Settings” on page 203). (You don't even have to use WordPress's blogging features at all!)

Then, how do you organize the other pages? A good plan will lay out the structure of your pages and show you how the blog fits into the site. If you plan on creating a simple blog, you might have a very simple structure that has one blog page and one About page (like Figure 4-9).

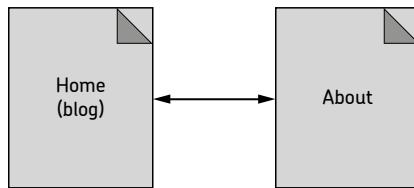


Figure 4-9: A very simple organizational scheme

If you have a portfolio site—like Kim—you'll likely have more pages, so a written plan will be more important (see Figure 4-10).

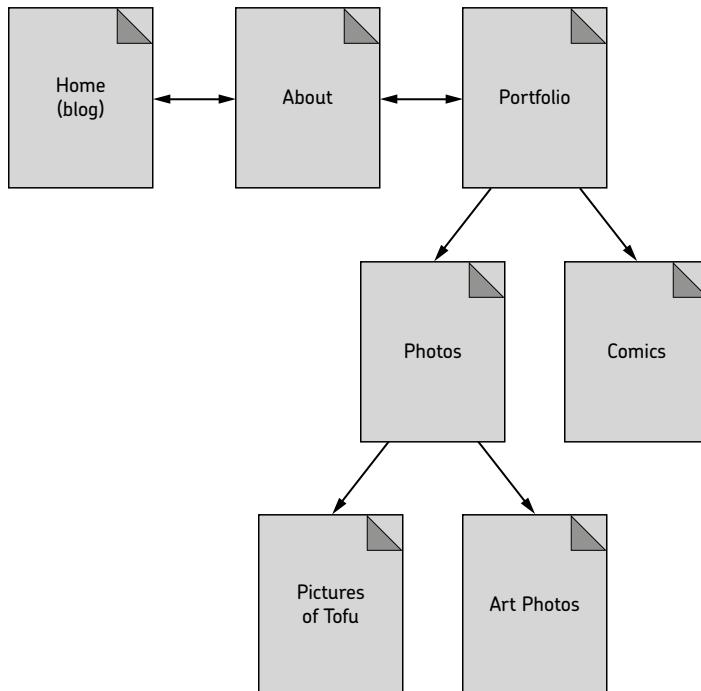


Figure 4-10: A plan for your site will guide you as you create your content. Make one before you build your site, and your content will be more organized.

Once you have created a site map, you should be ready to start creating pages in earnest. I'll remind you to create a plan at the end of this chapter, once you have a better idea of how all the different pieces of WordPress fit together. For now, you'll just get used to how WordPress works and start creating content.

Creating Your First Page

Let's make a page. Log into the Dashboard and navigate to the Pages tab on the left-hand sidebar. Next, select **Add New**, as shown in Figure 4-11.

This will take you to the *visual editor* (see Figure 4-12), where you'll write and edit all your pages and posts.

Let's create a simple web page now using the WordPress visual editor. First we'll want to give it a title. Click the text **Enter title here**, and enter **My Page**. Next, click the **Save Draft** button in the Publish box to the right. Saving a draft means we keep things private while we're working on them. Try clicking the **Preview** button next. This will open a new window or new tab in your browser and show you a view of what the page will look like with your current theme, as shown in Figure 4-13. (You can preview a draft post or page at any time, but it won't go public until you press the big blue Publish button.)

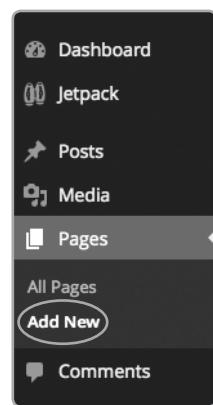


Figure 4-11: On the left side of the Dashboard, you'll see the Pages tab. Here you can create a new page by clicking Add New.

A screenshot of the 'Add New Page' screen in the WordPress visual editor. The left sidebar shows the 'Pages' tab is active. The main area has a title field with 'Enter title here' placeholder text, which is filled with 'My Page'. Below the title is a rich text editor toolbar. To the right of the editor are 'Publish' and 'Page Attributes' panels. The 'Publish' panel includes buttons for 'Save Draft', 'Preview', and 'Publish'. The 'Page Attributes' panel includes dropdowns for 'Parent' (set to '(no parent)'), 'Template' (set to 'Default Template'), and 'Order' (set to '0'). A note at the bottom right says 'Need help? Use the Help tab in the upper right of your screen.'

Figure 4-12: The visual editor for pages. On the right are publication and organization settings. In the middle is the editor itself, where you'll write posts, add images, and so on. You use the title field to name the page.



Figure 4-13: Previewing a page shows you the changes you've made before you make the page public.

You should already be seeing how much easier it is to write web pages using WordPress—no `<title>` tag, no upfront CSS work to style the fonts or headers. WordPress separates the content from the structure and the style, so when we're working on a page in the Dashboard we don't have to worry about those things. We just write the content we want and WordPress does the remaining work for us.

Go back to the Dashboard by closing this new window or tab. Let's complete the rest of our test page using the visual editor. Enter the following text:

This is bold text.
This is italic text.

Now let's format this text using the *formatting bar* (see Figure 4-14). Select the first line and click the **B** button to bold the selected text. Select the second line and click the **I** button to make it italic.



Figure 4-14: The formatting bar in the visual editor lets you do basic text formatting like bold or italic without writing HTML.

Save the draft and preview your page again. You should see something like Figure 4-15.



Figure 4-15: After you use the visual editor to format your text, the preview will show the finished version of your page.

WordPress formatted the text for you, and you got to skip typing the `` and `` tags. Also, notice in the preview that WordPress puts each paragraph on its own line, even though we didn't insert any `<p>` tags. This is another time saver when you're writing content into WordPress. The visual editor is a *WYS/WYG* tool, which is computer-geek speak for *what you see is what you get* and is typically a lot more user-friendly than HTML. Let's add more content to our page using the visual editor. Add another line:

Click here

Let's turn that *Click here* text into a link. Select the text and then click the **Link** button in the visual editor, as shown in Figure 4-16.

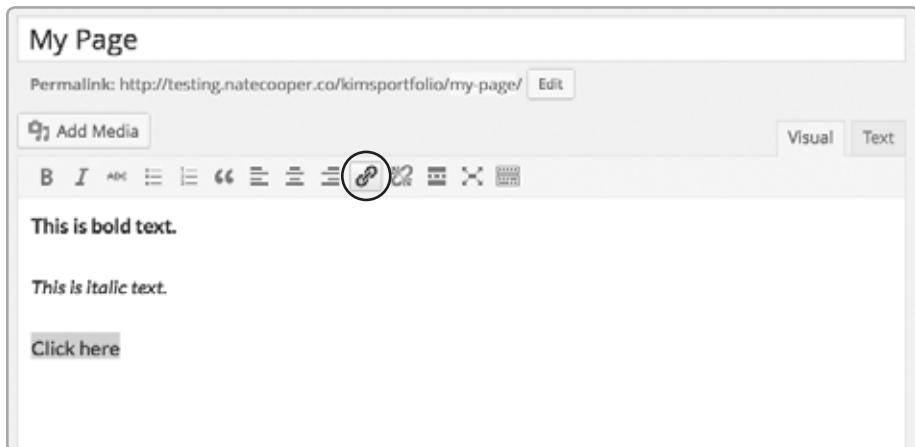


Figure 4-16: Adding a link to content is as simple as highlighting text and clicking the **Link** button.

A little box pops up where you can type your URL (see Figure 4-17). Go ahead and type <http://natecooper.co>, and then click **Add Link**. Notice that it looks like a link even in the visual editor. Pretty easy, right?

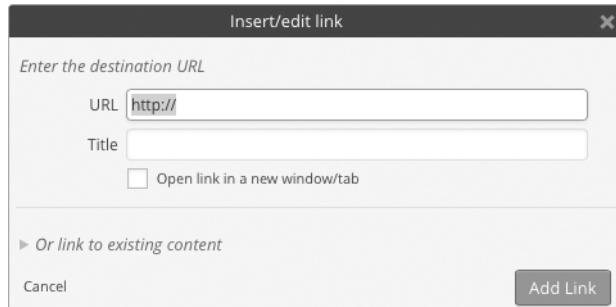


Figure 4-17: Clicking the **Link** button brings up a pop-up that asks for the link's destination URL.

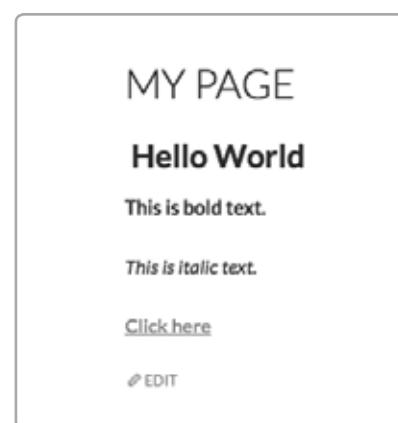
Next, let's add a first line to our page that reads "Hello World." We want this line to be a heading. But in the visual editor's toolbar, there's no obvious button to make text into a heading. What gives? Maybe you've noticed a strange little button on the far right of the toolbar. This is the Toolbar Toggle button (see Figure 4-18). If you click it, you'll get another whole row of options for formatting our text. One of those options is a Paragraph drop-down menu. Type **Hello World**, select the text, click the **Paragraph** drop-down menu, and select **Heading 1**. Now we have a heading on our page.



Figure 4-18: Clicking the Toolbar Toggle button enables a second row of formatting options that was previously hidden.

Save the draft and then preview your document. It should look like Figure 4-19.

We've built a functional web page in a few minutes using WordPress. The visual editor replaces the need to type HTML tags to format a website. So there's no need to learn to code, right? Yeah, right! There is no such thing as knowing too much HTML or CSS. WordPress's visual editor is doing the coding for you and that can help speed things up, but the HTML is still there. Close the preview to return to your page in the Dashboard. Click the **Text** tab at the top of the visual editor. You should see *almost* all of the HTML code for your page, as shown in Figure 4-20.



MY PAGE

Hello World

This is bold text.

This is italic text.

[Click here](#)

 EDIT

Figure 4-19: Now that you've changed the text "Hello World" into a heading, it stands out more on the page.

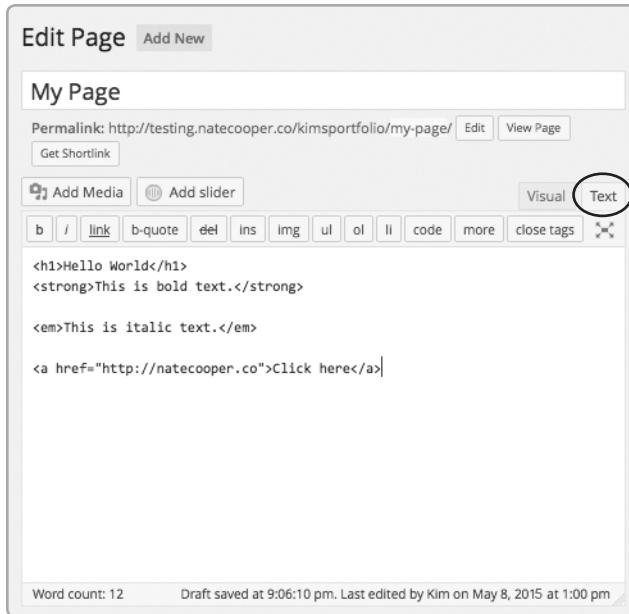


Figure 4-20: The Text tab toggles the editor to show the HTML that WordPress has written. If you write HTML tags into the text view, the code will be expressed on the finished page.

The page is still built in HTML; you've just used WordPress to automate the process. There are a couple of things to note here. One is that the CSS is not contained within this page. Just like when we built our site using our code editor, the CSS file is stored in a separate place. Second, another somewhat particular quirk about the WordPress editor is that there are still no `<p></p>` tags. Interestingly, WordPress filters them out in this text view. However, if you include `<p></p>` or `
` tags while writing in the text tab, WordPress will recognize them and format your text accordingly.

The beauty of knowing what's happening in the code is that you're never stuck with the formatting that WordPress does for you automatically. If you're comfortable looking at the HTML in the text editor, you're that much closer to manually editing it and tweaking it when you need to make a change.

Millions of people use WordPress every day without ever learning HTML, but they can get stuck trying to make sure they've gotten the paragraphs, spacing, and formatting just right. You, however, won't get stuck. The more familiar you get with HTML and CSS, the more you'll be able to customize these pages to your exact specifications and the less limited you'll be.

Adding Media to Your Page

Now let's add a picture to our page. Go ahead and choose the same image that you embedded in your sample web page from Chapter 2. Here's where things get really exciting, because WordPress streamlines how you organize your pictures through its built-in Media Library. In the visual editor for your page, highlight the text *Hello World* and press DELETE. This is where we'll insert our image. Click the **Add Media** button (shown in Figure 4-21), and you'll see a screen like Figure 4-22, prompting you to insert media.



Figure 4-21: The Add Media button

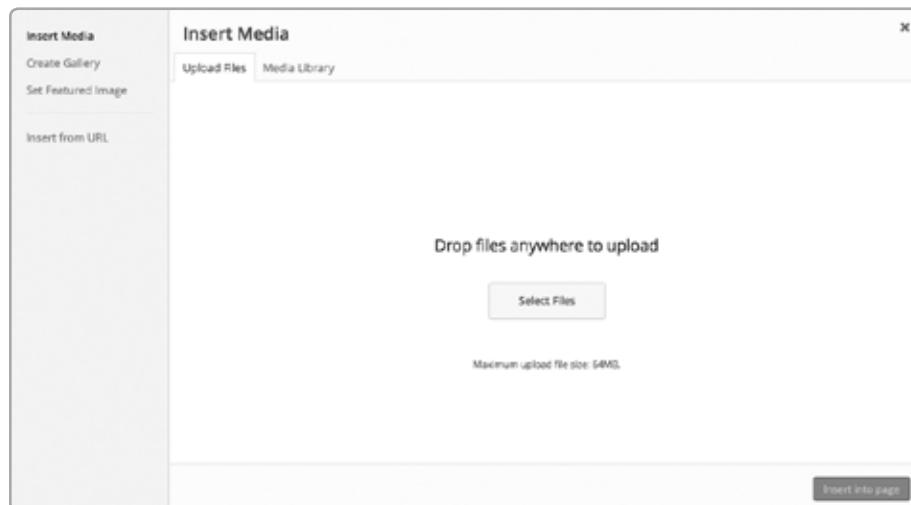


Figure 4-22: From here, you can either click Select Files to browse for the image you'd like to upload or simply drag your image onto this screen.

Alternatively, you can just drag an image into the visual editor, which takes you to a screen like the one shown in Figure 4-23.



Figure 4-23: The Media Library in WordPress shows all of the images ever uploaded. It can also be used to store video, PDFs, Word docs, and other files.

WordPress will immediately upload that photo. You'll see a progress bar while the image is uploading, and then once it's finished, in your Media Library you'll see a blue border around your image and a checkmark in its upper-right corner (Figure 4-23). This means that the image has been uploaded and is ready to be inserted into your page. Pretty slick, right?

Now that the photo is on WordPress, we can insert it into our page. You might have already noticed that Insert into page button at the bottom right, but before we get trigger-happy, there are some options we need to set.

To the right of the selected image, you'll see some details about it (see Figure 4-24). Remember when we used the `` tag in our HTML document that we added `alt="description"` so that search engines could more easily understand what's in the picture? In WordPress, we can add the alt text similarly. The Title and Description fields are optional descriptions that usually don't show up on the public view of the page, but they may make finding the image in the Dashboard easier later. For example, you might put a couple of words in the Description field that will remind you what's in the image so you can search for those words later. The Caption field will show up within the page and is also optional. If nothing else, you should get in the habit of at least putting something in the Alt Text field because it's so important for SEO. It's also used by screen-reading software for blind or visually impaired individuals.

For now, let's skip the Alignment drop-down menu but set the **Link To** setting to **None**. Remember, images can be links! By default, WordPress sets the image to link to itself. This is great when you want to see a thumbnail version of an image on a page and then let users click to see the larger version. But right now we just want the image. By setting the link to None, we'll have the image embedded but not link to anything. WordPress can also automatically resize the image within the page. If your photo is large enough, you should be presented with four choices: Thumbnail, Medium, Large, and Full Size. Let's select **Medium** if that's an option (Figure 4-25). Now go ahead and click **Insert into page**, and you'll see something like Figure 4-26.

NOTE WordPress will not stretch a small image up to fit into the Thumbnail, Medium, or Large sizes. If your image isn't at least as large as the Thumbnail, Medium, or Large sizes, you won't see those options.

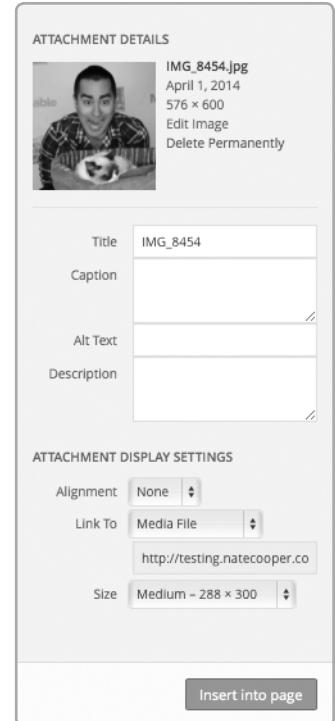


Figure 4-24: WordPress has a lot of options for organizing images, including adding captions and alt text and even resizing the image to fit within the current page.

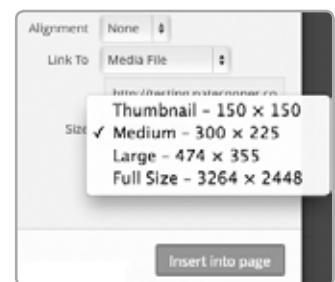


Figure 4-25: Whenever an image is uploaded to WordPress, Thumbnail, Medium, and Large size versions will also be created. If the image is too small, then only the Thumbnail or Medium sizes may be available.

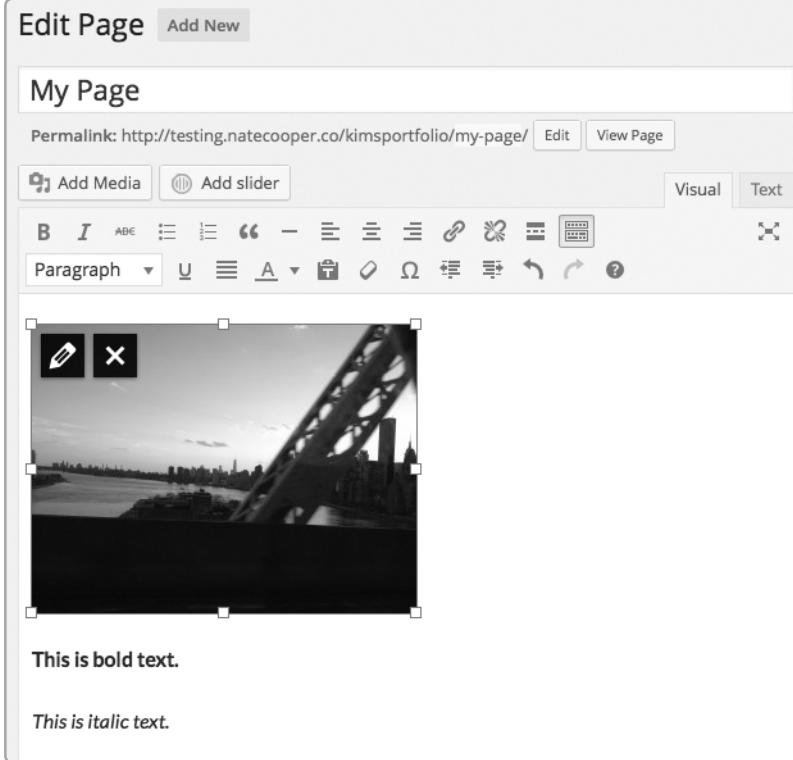


Figure 4-26: An image inserted into the visual editor shows up as an image, not as source code as it does when you're writing HTML.

Click the image to highlight it. You should see eight dots that you can drag out to resize the image. If you want to delete the image from this page, just click the X icon. Don't worry, that only deletes the image from the page; it'll still be in your Media Library in case you want to use it again later. You can also click the image to go back and edit the description, caption, or alt text. While the image is highlighted, you can align it using the alignment buttons or even make the image a link to something just like you would with text. The preview you see here appears in the visual editor as it will on the finished page. Click **Save Draft** and **Preview** to see the full effect in the finished page (see Figure 4-27).

Now go back to your visual editor. Click the image and then click the **Left Align** button in the toolbar, as shown in Figure 4-28.

Click **Save** and **Preview**, and you should see that the text is now to the right of the image. If this hasn't blown your mind yet, you haven't spent enough time using HTML to try to get alignment just right with images in a web page. When the left or right alignment buttons are clicked, WordPress assigns a class to the image that is referenced in the CSS of the theme. This class has a rule to float either to the left or right, causing the text to wrap around the object on the opposite side.

MY PAGE



This is bold text.

This is italic text.

[Click here](#)

[!\[\]\(92d9caf0a955bdf5d0fa2bf04b85c913_img.jpg\) EDIT](#)

Figure 4-27: The finished page is almost identical to what's shown in the visual editor.

Edit Page [Add New](#)

My Page

Permalink: <http://testing.natecooper.co/kimsportfolio/my-page/> [Edit](#) [View Page](#)

[!\[\]\(3727868d81bc8c493dc30cc3633c3b0b_img.jpg\) Add Media](#) [!\[\]\(178f5d580b80a29b16cfc2f4dee8d507_img.jpg\) Add slider](#) [Visual](#) [Text](#)

 [Paragraph](#) [U](#) [A](#) [!\[\]\(e23253e80935bdf88e70dc98406e9b41_img.jpg\)](#) [!\[\]\(321d588b59f0df4b674816f0400855b5_img.jpg\)](#) [!\[\]\(c88caad9fd9b9bb6f51503d965775bc6_img.jpg\)](#) [!\[\]\(ae658a09f9b1823280596b30a408e7ae_img.jpg\)](#) [!\[\]\(d01c3c9cc411ade9268afc1da155477e_img.jpg\)](#) [!\[\]\(9d83ca89ce18322f6dda223c32d161ad_img.jpg\)](#) [!\[\]\(e330ac8cd131bc70d2c80f87128f4ec5_img.jpg\)](#) [!\[\]\(9c9d03229934a7f2e0602aa6870efd8b_img.jpg\)](#) [!\[\]\(cd339a1d0f271a24244f0d035b84493d_img.jpg\)](#) [!\[\]\(d10ddc3d90574e89e2b955124cc63c49_img.jpg\)](#) [!\[\]\(b7d667804ccfdbcd4b039e464275adbe_img.jpg\)](#) [?](#)



This is bold text.

This is italic text.

[Click here](#)

Figure 4-28: When an image is selected, the alignment buttons can move the image to the left or the right of text, causing the text to wrap around the image just like in a word processor.

Publishing Your Page

Now that we've added all of the content into our page, we're ready to make it live to the world. In the Publish box in the upper-right corner of your page, click the big blue **Publish** button (see Figure 4-29). Publishing makes your WordPress page live.

Once you've clicked Publish on a page, go to the frontend of the site to see how it looks. You should see that your page appears in the navigation menu (see Figure 4-30).

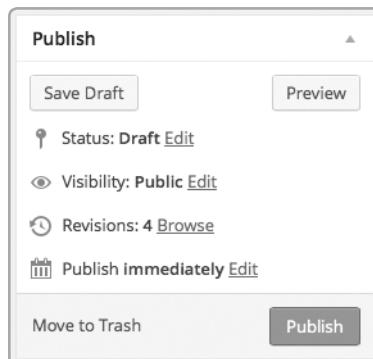


Figure 4-29: The Publish box is where you set when a page will be published or save it as a draft to return to later.

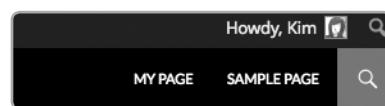


Figure 4-30: The published pages on a site show up in this menu on the frontend.

That's it. Once you click the Publish button, your page is live for all to see. Want to take it back? WordPress has many flexible options for that as well. Go back to the Dashboard and select the Pages tab from the sidebar on the left. This will show you all of the pages on your site (see Figure 4-31).

A screenshot of the WordPress Dashboard under the "Pages" tab. The sidebar on the left shows "All Pages" selected. The main area displays a list of pages with columns for Title, Author, and Date. The list includes:

Title	Author	Date
About	Kim	2015/03/31 Published
My Page	Kim	8 min ago Published
Portfolio	Kim	2015/03/31 Published
Sample Page	Kim	2015/02/13 Published
Title	Author	Date

At the bottom, there is a note: "Thank you for creating with WordPress." and the version information "Version 3.8.1".

Figure 4-31: The pages within a site show up under the All Pages section of the Pages tab.

Click the name **My Page**. This will bring you back to the visual editor. Under Status in the Publish box, click **Edit** and then select **Draft** from the drop-down menu. Click **OK** and then **Update** (see Figure 4-32).

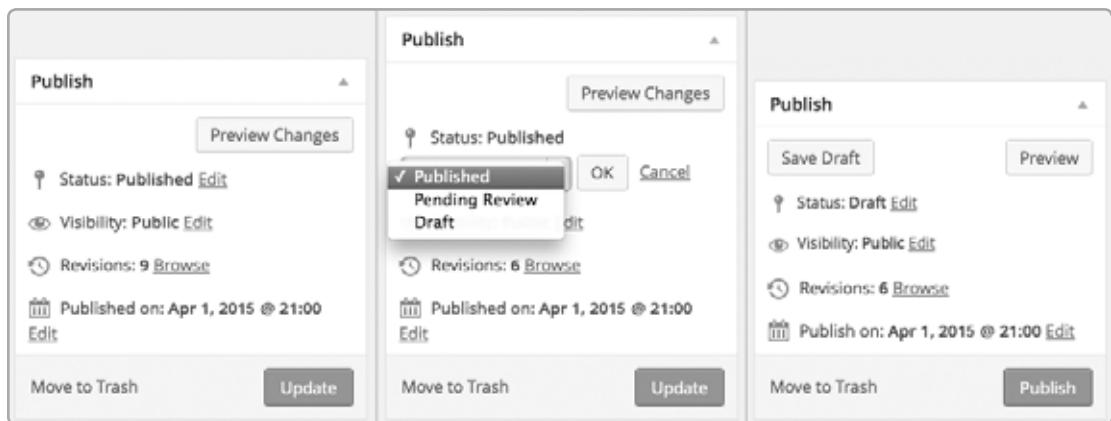


Figure 4-32: Even if a page has already been published, it can be moved back into drafts. This keeps it in the WordPress Dashboard so you can see and edit it, but removes it from the frontend of the site so that it won't be visible to visitors.

Congrats, you've just *unpublished* your page from your website! The information is still stored, and you can always republish it. It's just been placed back into draft mode, which means that you can see it in the Dashboard, but it's not publicly visible to the world. WordPress also has a section for Visibility that allows you to keep posts private or password-protected (see Figure 4-33).

One of the nicest features of the Publish box is that it enables you to set the publish date to a specified time in the past or the future. If you set it for the past, it will look like the page was actually written and published on that date. If you set it into the future, the page will remain visible only to you until that date, and then it will be automatically published publicly by WordPress. Pretty cool, right? These publishing options even work the same for Posts as they do for Pages.

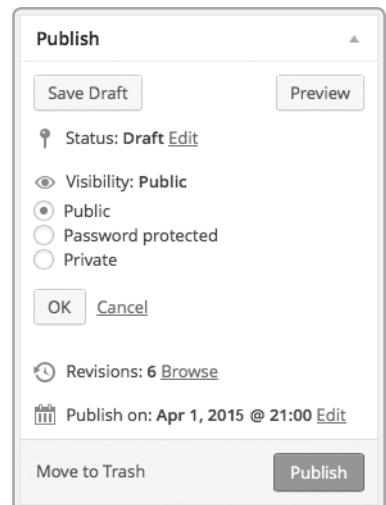


Figure 4-33: A public page can be set to private (viewable only by the creator) or password-protected (viewable only with a password).

Organizing Your Pages

What if you wanted to do something a bit fancier with your pages? Kim wanted to build Portfolio pages, but she had Drawings and Photos below that Portfolio page. With WordPress, organizing a site like that is easy (see Figure 4-34).

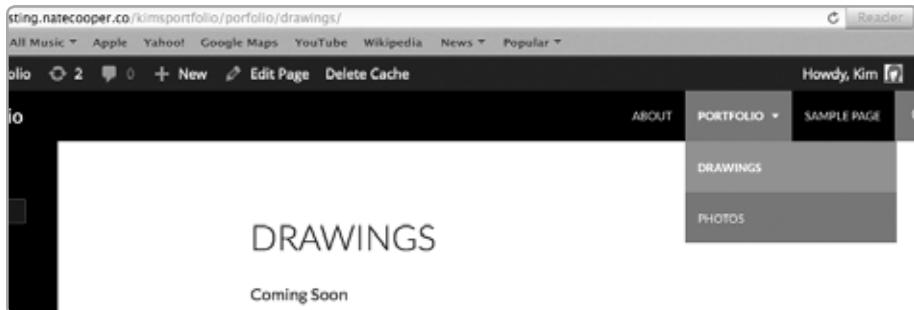


Figure 4-34: A parent page is a higher-level page within a hierarchy. The menu shows that within the Portfolio section is a Drawings and a Photos page. (Right now we're on the Drawings page, which you can see in the URL.)

Pages at the top of the hierarchy (like Kim's portfolio) are called *top-level* or *parent* pages. Pages that live on the second level and below are called *child* pages. You can see the relationship between parent and child pages right in the navigation bar, which makes organizing your site that much more useful for visitors.

Let's flesh out our site by creating a Portfolio section. Click **Dashboard** and then click **Pages** from the sidebar on the left. This will give us our list of pages.

We'll start with three pages. First we'll create the Portfolio page, then the Photos page, and finally the Drawings page. Then we'll want to make sure Photos and Drawings are nested underneath Portfolio. For now, we'll just populate each of these pages with the text *Coming Soon*.

Click **Add New**, title your first page **Portfolio**, and then click **Publish**, as shown in Figure 4-35.

Now that you have a Portfolio page published, it's time to add the two pages, Photos and Drawings, that will appear on the Portfolio page. Click the **Add New** button at the top of the page, as shown in Figure 4-36.

Let's make this our Photos page. Title the page **Photos** and type **Coming Soon** on the page. Before you click Publish, however, scroll down to the lower-right side of the page (see Figure 4-37). There you should see the Page Attributes section, where you'll see a Parent drop-down menu, a Template drop-down menu, and an Order number. Right now the Parent is set to (no parent). Change the **Parent** to **Portfolio**.

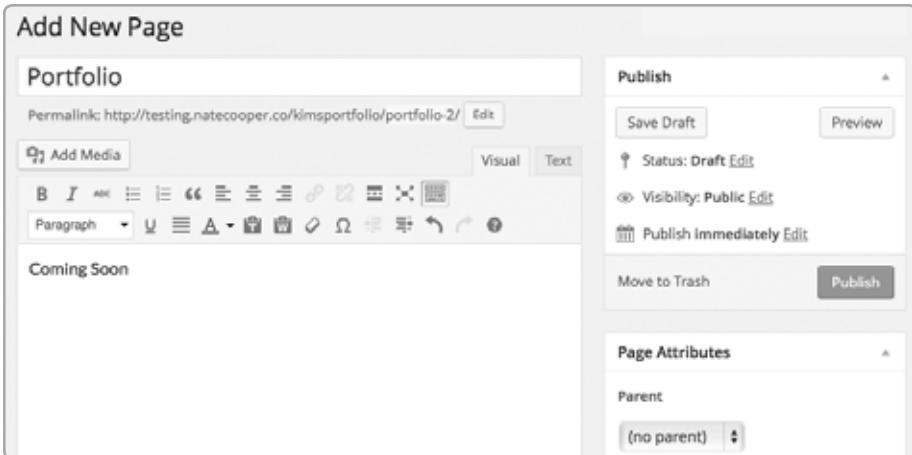


Figure 4-35: To understand how pages are organized hierarchically within WordPress, create a dummy page called Portfolio. In the content box, type Coming Soon.

A screenshot of the WordPress 'Edit Page' interface for the 'Portfolio' page. The content area shows 'Coming Soon'. At the top left, there's an 'Add New' button. On the right, there's a 'Page Attributes' sidebar with sections for 'Parent' (set to '(no parent)'), 'Template' (set to 'Default Template'), and 'Order' (set to '0'). A note at the bottom right says 'Need help? Use the Help tab in the upper right of your screen.'

Figure 4-36: Once a page has been published, an Add New button appears at the top of the window.

Figure 4-37: The page editor has a special section called Page Attributes where a page's parent can be set.

Click **Publish**. You can then click **Add New** and repeat the same process for the Drawings page. When you've finished, revisit your site's frontend. Notice that the menu lists the Portfolio page, and the two subpages appear in a drop-down menu. Child pages will have dashes next to them in the Dashboard to indicate that they are not top-level pages (see Figure 4-38).

Title	Author	Date
About	Kim	2015/03/31 Published
My Page - Draft	Kim	24 hours ago Last Modified
Portfolio	Kim	17 mins ago Published
— Drawings	Kim	5 mins ago Published
— Photos	Kim	6 mins ago Published
Sample Page	Kim	2015/02/13 Published

Figure 4-38: Child pages have dashes next to them in the Dashboard to distinguish them from top-level pages.

Creating a Blog Post

Now let's create a blog post. Go to your Dashboard and select **Posts > Add New**. You'll see the visual editor again, as shown in Figure 4-39.

Go ahead and enter **Post 2** as the title, and in the visual editor type **This is my second post**. Then click **Publish**. Add another couple of blog posts if you like, to get the hang of things. When you're ready, click the site name in the upper-left corner to switch to the frontend of the site.

Remember, blog posts appear on the posts page on a WordPress site. Click **Home** or your site title to get there. You should see your newest post at the top of the page and any existing posts further down the page (see Figure 4-40). By default, the post order is sorted by descending date.

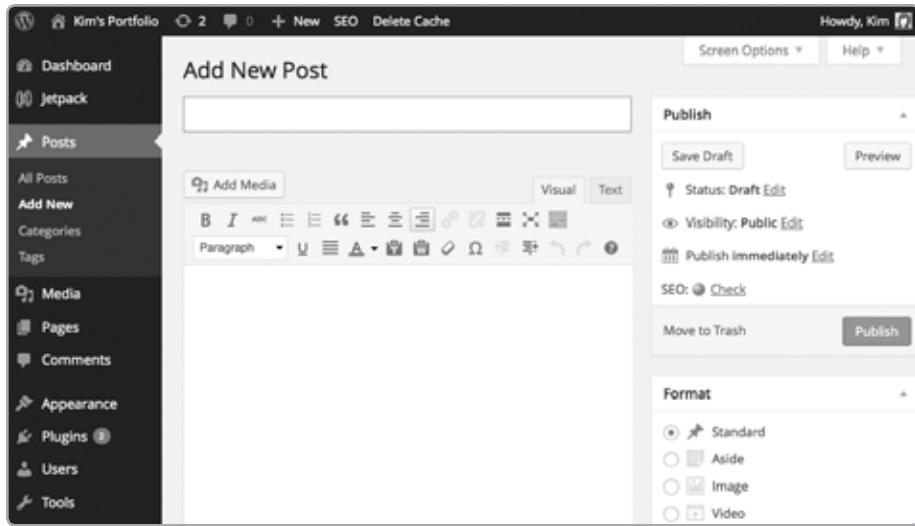


Figure 4-39: The visual editor for posts is nearly identical to the editor for pages. All of the same content—pictures, links, and formatted text—can go into the content box.

A screenshot of the WordPress Posts page. It displays three blog posts in a list format. The first post is titled 'POSTS 3' and was published on March 31, 2015. The second post is titled 'POST 2' and was published on March 31, 2015. The third post is titled 'HELLO WORLD!' and was published on February 13, 2015. Each post includes a snippet of its content and standard WordPress meta information (date, comments, edit link).

Figure 4-40: The posts page is where blog posts get aggregated. Unlike with pages, which stand alone, each post goes into the single posts page and is organized by date, with the newest posts on top.

Getting Organized: Post Categories and Tags

Another tool for organizing your blog posts is using tags and categories. Go back to your Dashboard and click **Posts** to bring up all of your existing posts, as shown in Figure 4-41. You should see a list of all of your existing posts.

As an example, let's say we're going to be writing book reviews on our blog. We'll want to group these particular blog posts together so that any readers on our site can easily pull them up. Click **Add New** to create a new post. Give the blog post the title **The Great Gatsby**. In the lower-right corner of your window, you should see the Categories and Tags sections.

The screenshot shows the WordPress admin interface with the 'Posts' tab selected. The left sidebar includes links for Dashboard, Jetpack, Posts (which is active), All Posts, Add New, Categories, Tags, Media, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, SEO, and a Collapse menu. The main area displays a table of posts with columns for Title, Author, Categories, Tags, Date, SEO, SEO Title, Meta Desc., and Focus KW. There are three rows of data:

Title	Author	Categories	Tags	Date	SEO	SEO Title	Meta Desc.	Focus KW
Posts 3	Kim	Uncategorized	—	2015/03/31 Published	●	Posts 3 - Kim's Portfolio		
Post 2	Kim	Uncategorized	—	2015/03/31 Published	●	Post 2 - Kim's Portfolio		
Hello world!	Kim	Uncategorized	—	2015/02/13 Published	●	Hello world! - Kim's Portfolio		

At the bottom of the table, there are 'Bulk Actions' and 'Apply' buttons. The top right of the screen shows 'Screen Options' and 'Help' buttons, along with a search bar and a '3 items' count.

Figure 4-41: The Posts tab displays all of the posts within your blog, whether they're drafts or published.

These are qualifiers you create to group your posts together, which will make it easier for people visiting your website to find posts on the same subject. *Categories* are broad groupings, and *tags* are more specific. For this Gatsby post, we might create a category called *Book Reviews* in case we are planning to write more reviews in the future. We don't currently have a Book Reviews category, so we'll have to make one. Click the **Add New Category** link. Enter **Book Reviews** and click the **Add New Category** button. Now your category will show up in the list, and you can select it for your post (see Figure 4-42).

For tags, we can be more specific. In the Tags field, type **Fitzgerald, bootlegging, Jazz Age** (including the commas) and then click the **Add** button (shown in Figure 4-43).

A post can live in more than one category and tag, but generally speaking posts usually have more tags than categories, since categories are broad subjects and tags are narrower. This isn't a rule so much as a convention.

Type **Coming Soon** into the body of the post and then click **Publish**. A shortcut to the post should appear at the top of the screen, as shown in Figure 4-44. Click **View Post** to be taken to the post on the frontend.

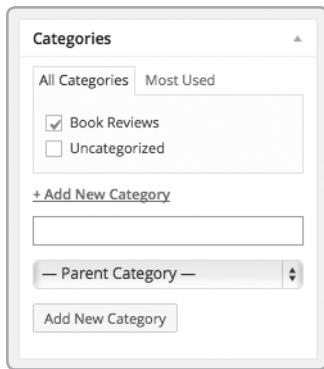


Figure 4-42: Creating categories is as simple as typing a category name and clicking the Add New Category button. All posts will have at least one category attached to them. Once a category has been created, it will be available for any new posts added to the blog.

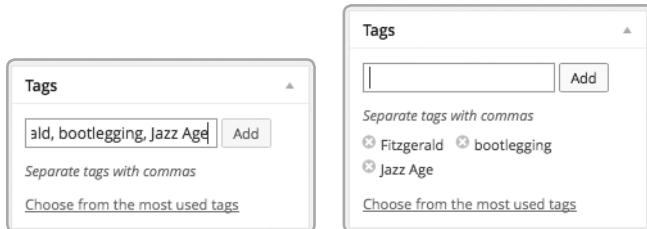


Figure 4-43: Tags are a way to get more specific about what's in a post. Once you add tags to a post, they'll show up in WordPress when you're writing a new post so you can use them again.

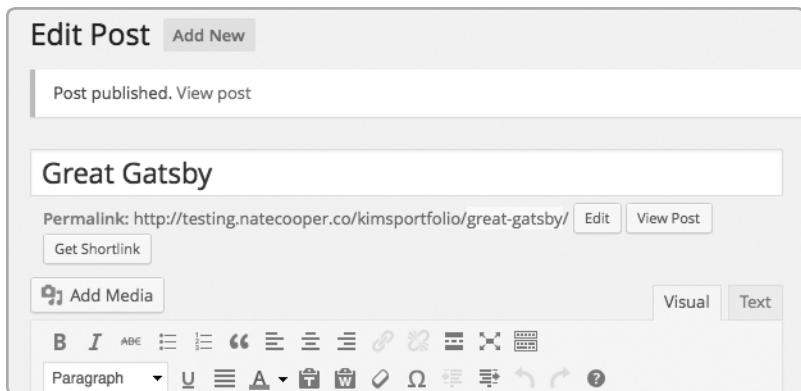


Figure 4-44: After a post has been published, a link to View Post appears at the top of the page.

WordPress automatically creates links out of your categories and tags and displays them under each post, as shown in Figure 4-45. These are clickable links, which allow readers to easily find any posts that might be on the same subject.

The more consistently you tag or categorize your posts, the more useful these conventions will be on your site. It may not seem that important when you are starting out, but once you have many posts in your blog, your readers will value having a way to access related content at the click of a mouse.

Featured Images

Some themes use a *featured image* to display for each blog post (see Figure 4-46). A featured image is often a panorama-style image that lives at the top of the page or post, as in Figure 4-47, or a thumbnail image that lives next to the post. This can make your blog look quite appealing. Since we've enabled Twenty Fourteen, which supports featured images, you'll see another box below the tags, called Featured Image. To add a featured image, click the link and then select an image you'd like to be associated with the post. You won't have to choose the size because the theme will choose that for you.

BOOK REVIEWS

GREAT GATSBY

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◀ BOOTLEGGING ▶ FITZGERALD ▶ JAZZ AGE

Figure 4-45: In the Twenty Fourteen theme, categories appear at the top, while tags appear at the bottom. Both will be links in WordPress.

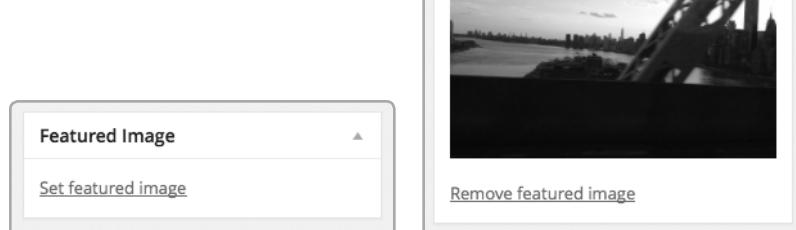


Figure 4-46: Some themes support featured images on posts, which enhance your site's content.

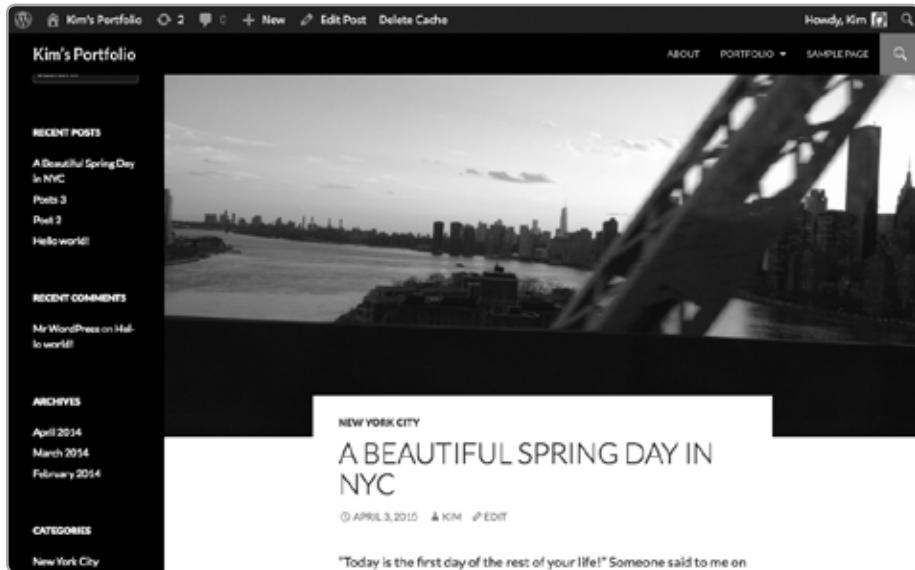


Figure 4-47: A featured image in the Twenty Fourteen theme. Many themes support featured images for blog posts.

Using Video, Photos, and Quotes with Post Formats

Another theme-specific feature, supported by the Twenty Fourteen theme is *post formats*. What does that mean? Particular kinds of media, like photos, videos, and quotes, might have their own unique look in some “magazine-style” themes. For example, if you have a post that is *just* a quote you can choose *Quote* as the format, and the theme will make the text larger so that the words stand out more. Conversely, a video post might be styled to focus on the video content. You’ll see the Format box above the Categories box in your post editor (see Figure 4-48). Themes that support formats help you display your content in the style that best fits its type.

Each format looks a little different (see Figure 4-49).

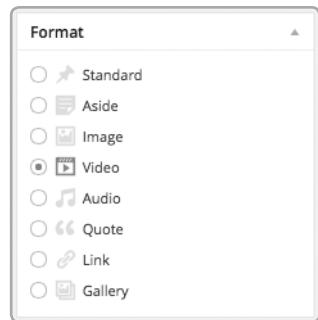


Figure 4-48: Setting a format in the Dashboard allows post content to stand out on your blog.

INSPIRATION

CESAR KURIYAMA AT REBOOT WORKSHOP

▶ VIDEO ⏱ APRIL 2, 2015



INSPIRATION

QUOTE ⏱ APRIL 1, 2015

"Creativity is knowing how to hide your sources" — Albert Einstein



NEW YORK CITY

A BEAUTIFUL SPRING DAY IN NYC

⌚ MARCH 31, 2015

"Today is the first day of the rest of your life!" someone said to me on my walk across the Brooklyn Bridge today. The smell of flowers was in the air, and a calm breeze reminded me the winter chill had not quite given up its hold on our city.

◀ BLOOMING ▵ NICE WEATHER ▵ SPRING ▵

Figure 4-49: From top to bottom: a video post, a quote post, and an unformatted post in the Twenty Fourteen theme

Managing and Deleting Content

If you've been worried about all these blank pages we've been creating, don't fret. WordPress gives you the ability to update or delete pages on the fly in the Dashboard. It also has some nice options for managing other content, including photos and posts. Go to the Dashboard and click **Posts**. You should see the list of all your posts in your blog, as shown in Figure 4-50.

The screenshot shows the WordPress dashboard with the 'Posts' tab selected. The left sidebar includes links for Dashboard, Jetpack, Posts (selected), All Posts, Add New, Categories, Tags, Media, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, and Collapse menu. The main area displays a table of posts with columns for Title, Author, Categories, Tags, and Date. Each post row has a checkbox in the first column. The posts listed are: 'Great Gatsby' by Kim (Published 4 mins ago), 'Posts 3' by Kim (Published 2015/03/31), 'Post 2' by Kim (Published 2015/03/31), and 'Hello world!' by Kim (Published 2015/02/13). Bulk Actions dropdown and Apply button are at the top, and a 'Screen Options' and 'Help' link are at the top right. A note at the bottom says 'Thank you for creating with WordPress.' and 'Version 3.8.1'.

Figure 4-50: The All Posts section on the Posts tab displays each post that's been created within the WordPress blog. Checking the box to the left of the post name allows for bulk changes.

The little menus at the top of the page give you some options for managing or finding posts. You'll see the Bulk Action drop-down menu in each list in WordPress. It allows you to edit or delete your pages and media; just check the boxes next to the items you want to change and choose what you'd like to do with them from the drop-down menu. If you wanted to delete all of the sample pages we've created in order to start working on your own site, you'd just highlight all of the pages and select Move to Trash, as shown in Figure 4-51. As with the trash on your computer, you'll need to empty it. Click **Trash** and then **Empty Trash** to completely erase the pages we've created.

You can also, of course, delete a page or post by editing it individually. Use the **Move to Trash** link while in the visual editor to delete an individual post or page.

In this chapter we've learned how to organize and manage our content, including pages, posts, and media. But we haven't seen how to change fonts, colors, structure, or functions in WordPress. Let's see where Kim goes next in her adventure!

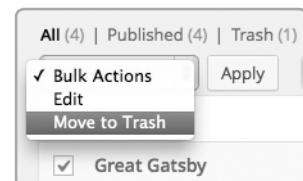
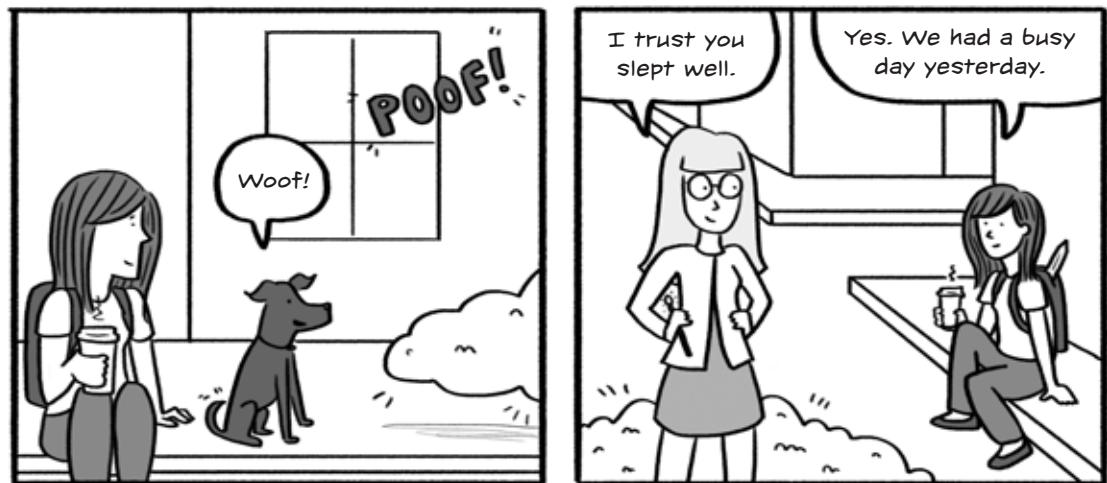


Figure 4-51: After checking the box to the left of each post you'd like to change, you can click the Bulk Actions drop-down menu to either edit all of the checked posts or delete them.

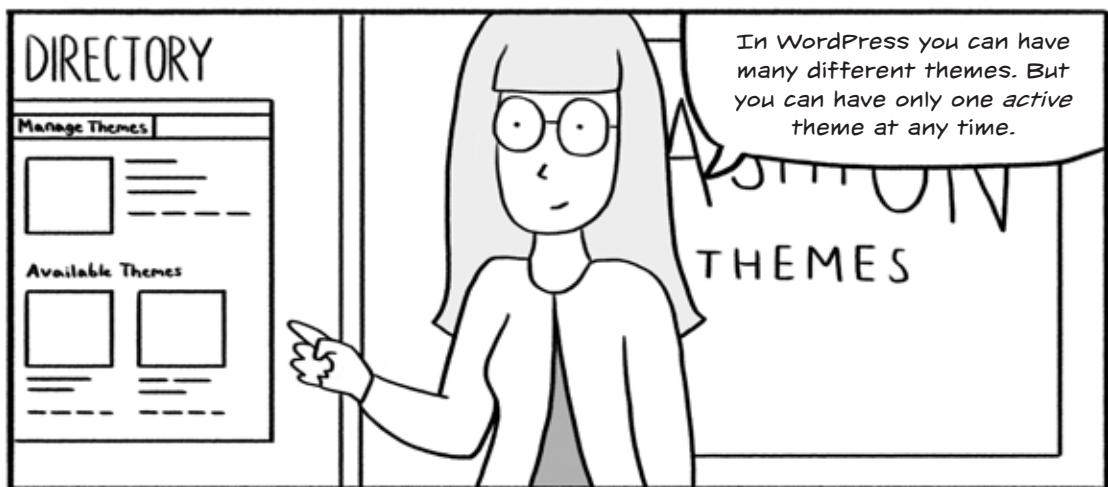
5

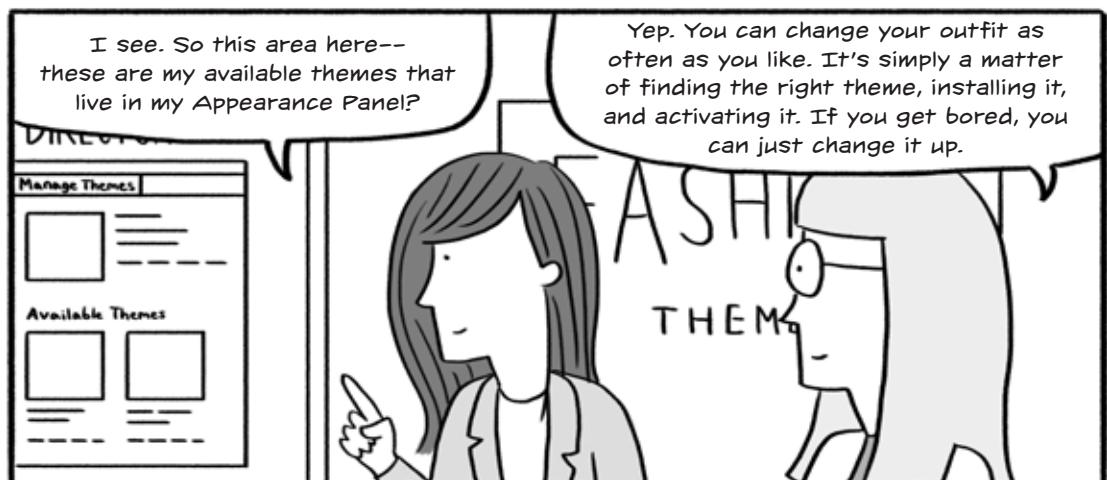
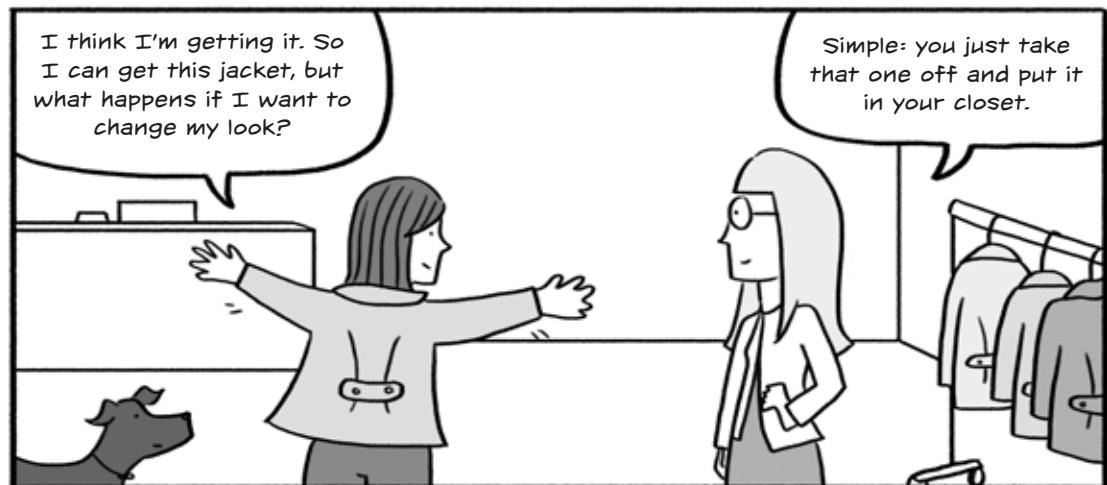
Customizing WordPress





The Appearance Panel





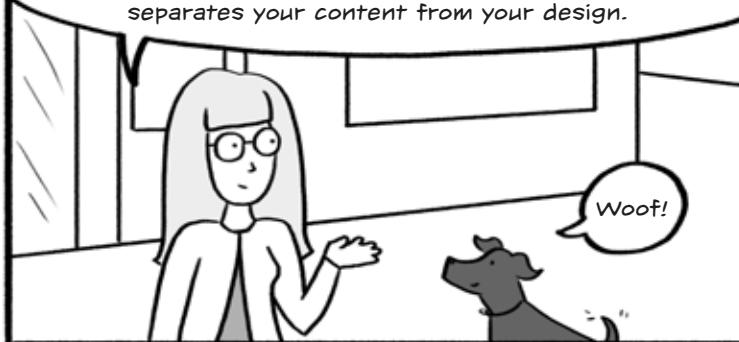
But what happens to all of my pages that we stored in the library yesterday?



Two side-by-side screenshots of a WordPress website. The left screenshot shows the dashboard with a page titled "Kim's Sample Portfolio" and a preview of the site. The right screenshot shows the live site with a "WELCOME" header, a large image of a dog, and a bio for Kim and Tofu.

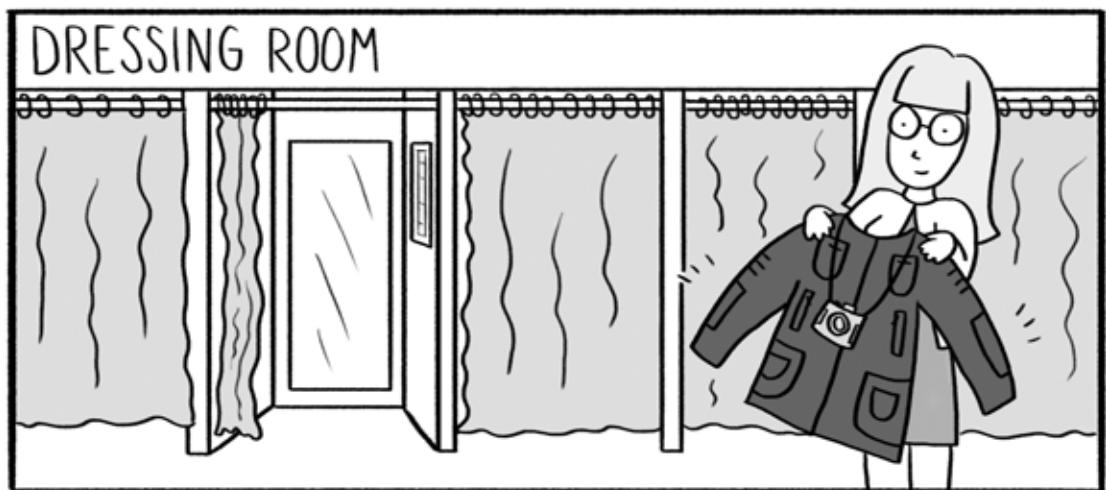
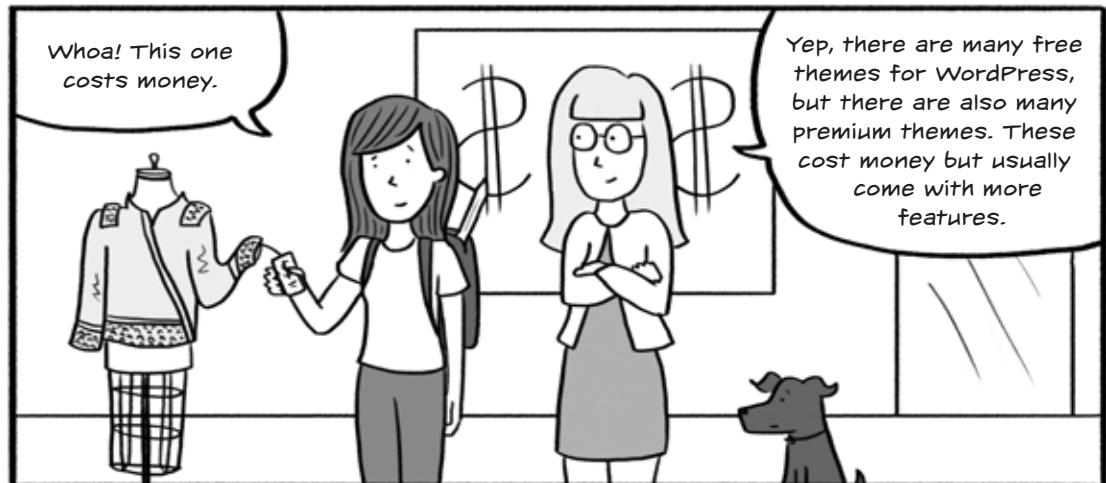
Whatever theme you activate changes the look of your site, but it doesn't change the content. Your pages, posts, and images are all still there, even if they look a little different.

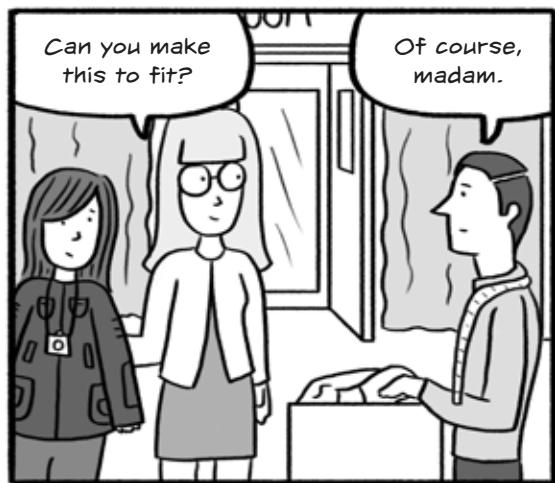
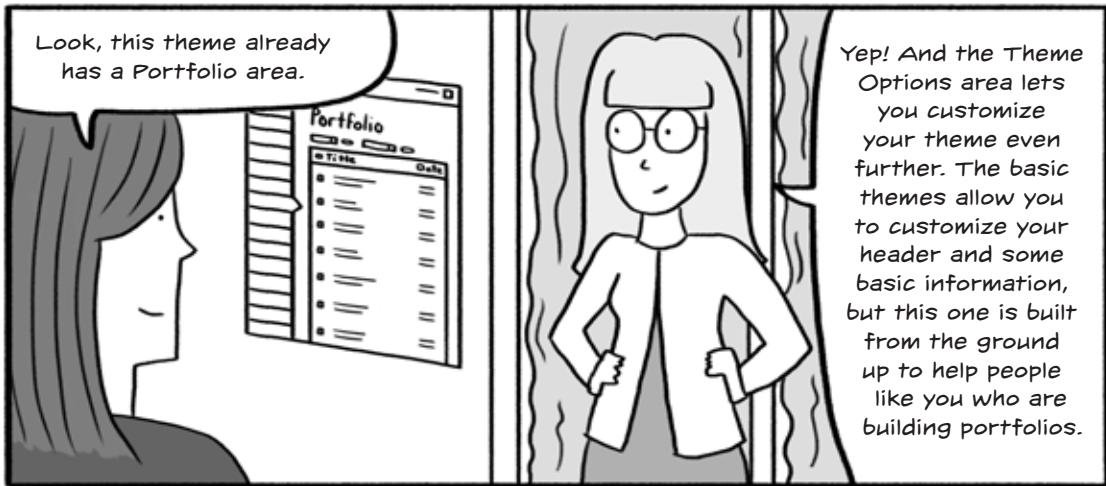
WordPress, like all content management systems, separates your content from your design.

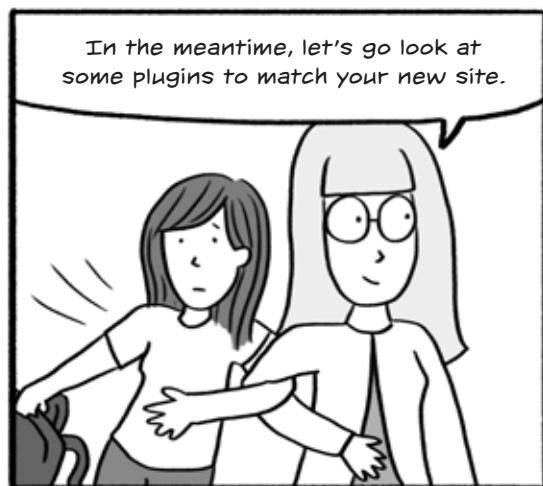


That's right, Tofu.

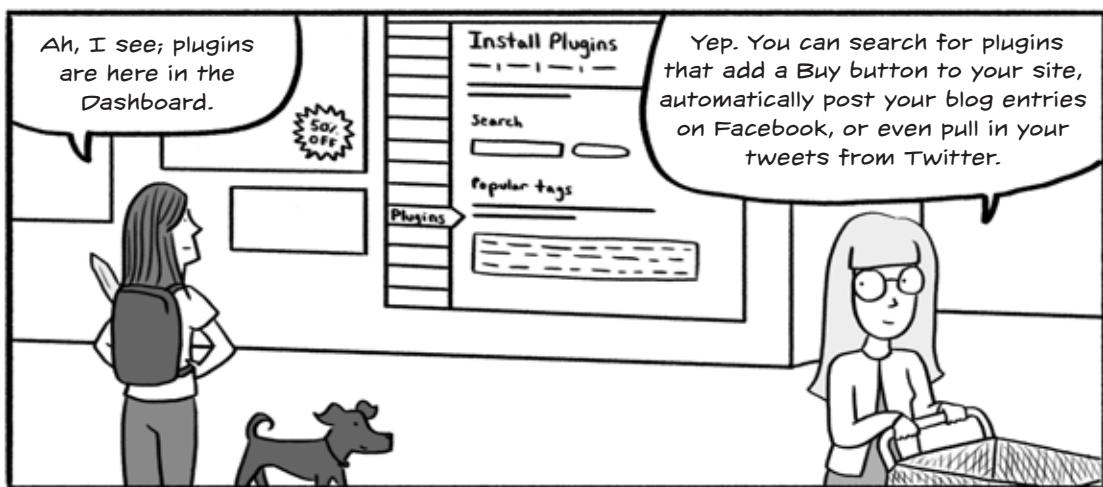
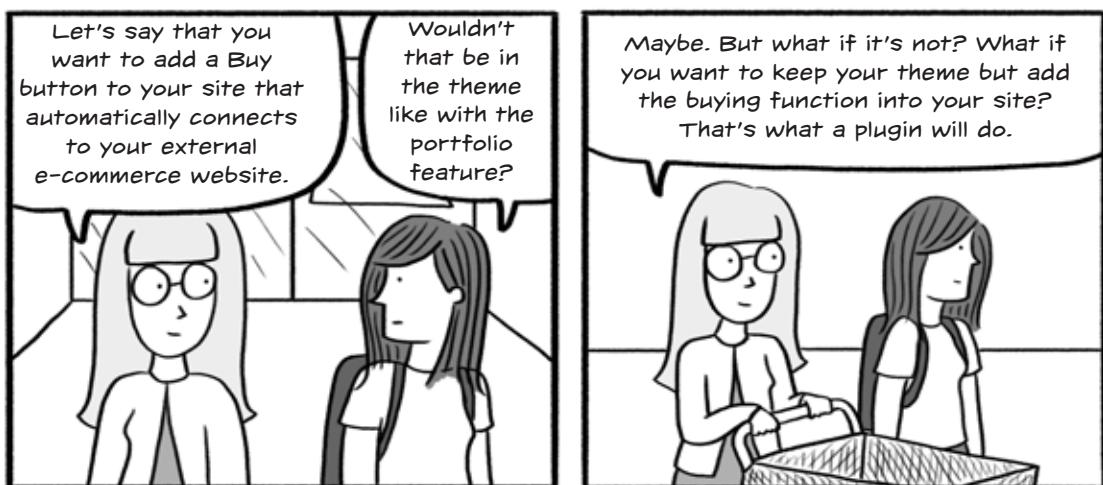


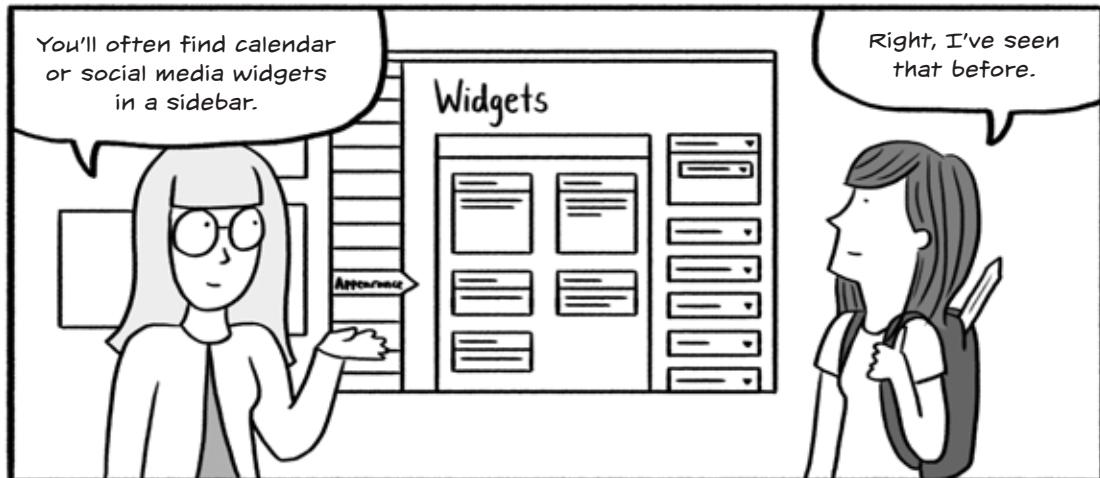


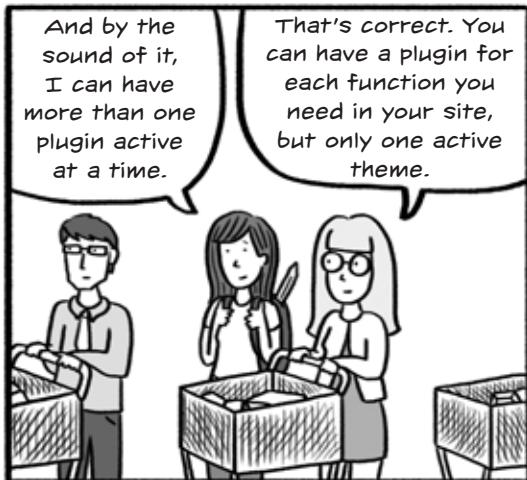
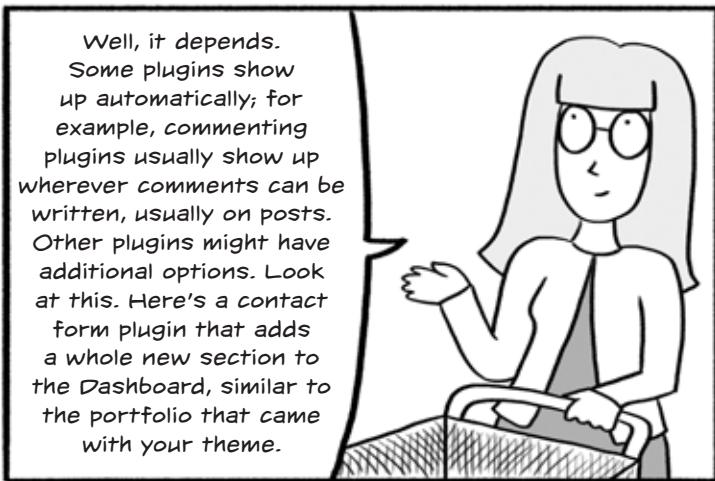




Kim Superpowers Her Site with Plugins









Kim Goes Behind the Curtain

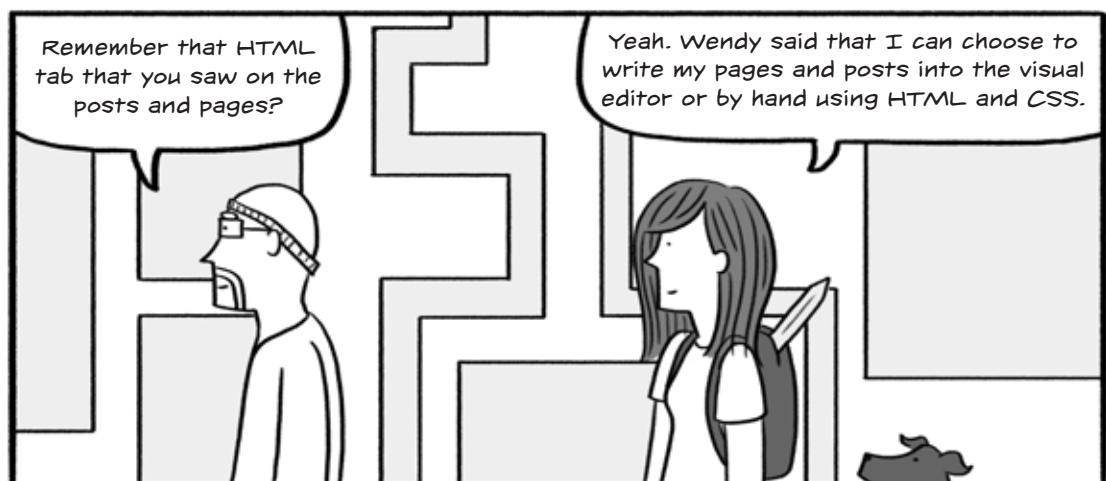








Not exactly.



Yeah. Wendy said that I can choose to write my pages and posts into the visual editor or by hand using HTML and CSS.

That's right. The more HTML and CSS you know, the better you'll be able to customize content in your pages and posts. But that's not all. Follow me.



Let me see that garment you've just purchased from the shop.



Take a closer look.

<header class="entry-header">
<h2 class="entry-title"><a href="<?php the_p
<p><?php the_content() ?></p>

A large magnifying glass is focused on a dark garment. Inside the lens, a snippet of HTML code is visible, showing parts of a header, title, and content area.

Some of this looks like HTML.

That's right. HTML and CSS are the basis for every theme in WordPress--meaning you can customize your own theme if you know this code.



What's this other stuff?



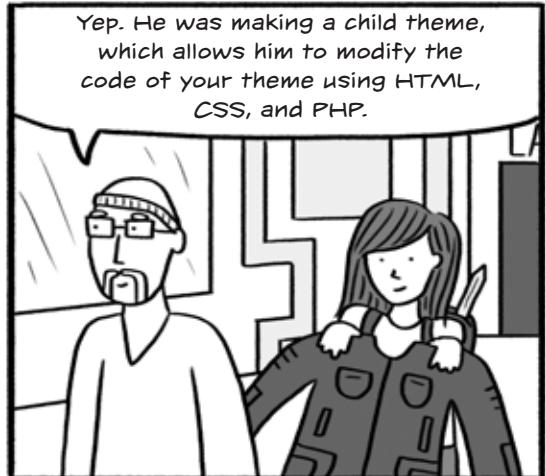
WordPress uses a scripting language called PHP. The neat thing about PHP is that you can write HTML in and around it, and it allows you to use commands called functions to create your own theme designs or customize existing ones.

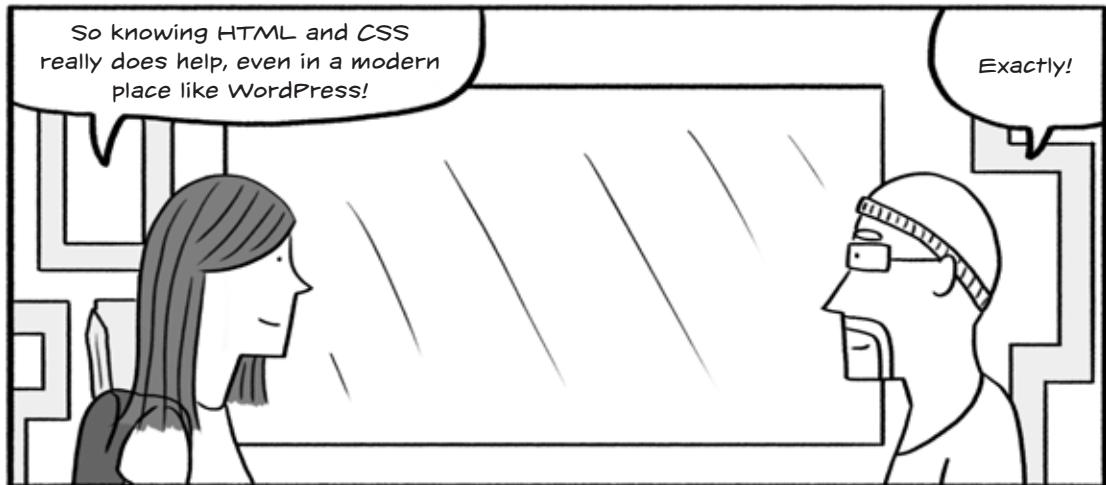


So that's what the tailor was doing?



Yep. He was making a child theme, which allows him to modify the code of your theme using HTML, CSS, and PHP.





Changing the Appearance: Theme Basics

Up to this point we've been focusing on content; that is, the words, links, and pictures that go into your pages and blog. Aside from a few basic formatting options like aligning images and breaking up paragraphs, we haven't been able to change the look of the site much. This is an intentional feature of WordPress. All of the appearance-related aspects of the site are stored in the *theme*, a template that determines the look and layout of your whole website. At any time you only ever have *one* active theme. There are millions of themes available, which can be a bit overwhelming at first, although it's nice to have so many options. You can even decide to build your own theme from scratch if you'd like.

In your Dashboard, go to **Appearance ▶ Themes** and you should see a list of themes organized in a grid, as shown in Figure 5-1. One of the biggest differences between a site hosted on WordPress.com and a self-hosted WordPress site is in the theme selection. On WordPress.com, you will see a wide variety of themes—some free, some for sale (the latter are called *premium*). What you *won't* see is any way to add a theme that isn't preselected by WordPress.

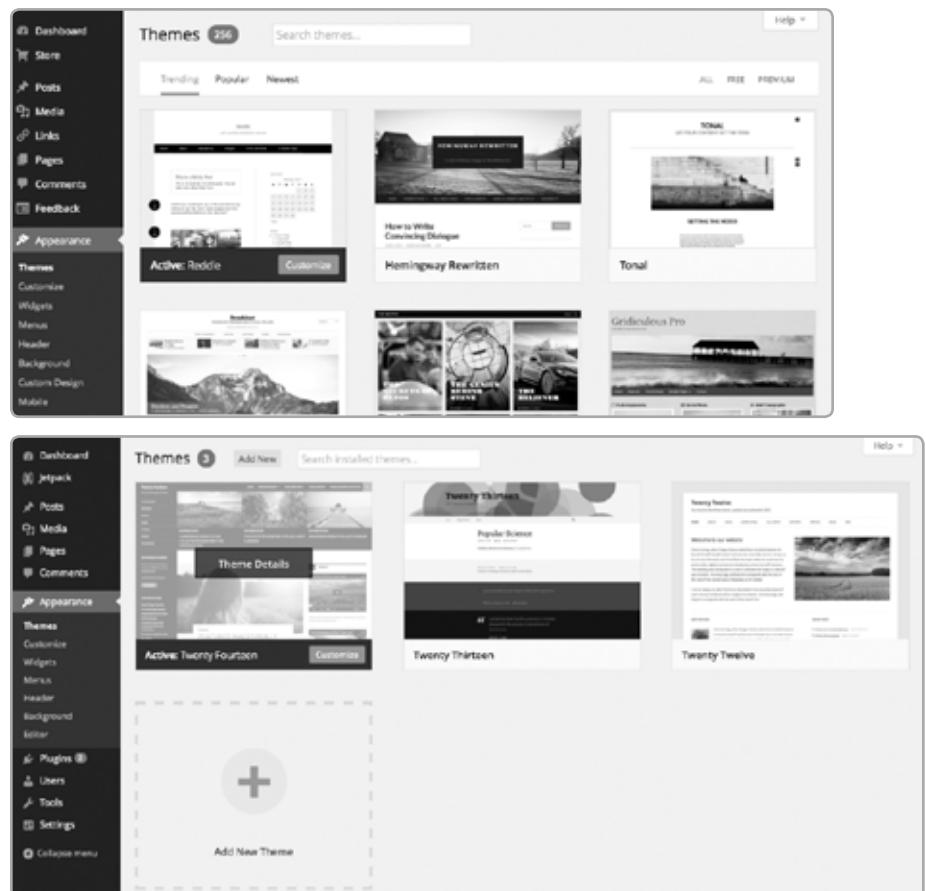


Figure 5-1: The Theme Chooser on WordPress.com (top) and a self-hosted WordPress site (bottom). You can pick out a theme in **Appearance ▶ Themes**.

Changing the look of your site in WordPress is as easy as activating a new theme. By activating one theme, you automatically deactivate the previous theme. However, activating a new theme doesn't erase your content (your posts, pages, and images); it just changes how your content looks. Try searching for themes by clicking the **Add New Theme** button. This will allow you to search through a free directory of themes on WordPress.org (see Figure 5-2). In our example, we're searching for a responsive theme. Once you find a theme you'd like to try, click the **Install Now** link. This will download the theme from WordPress.org and put it on your host for you.

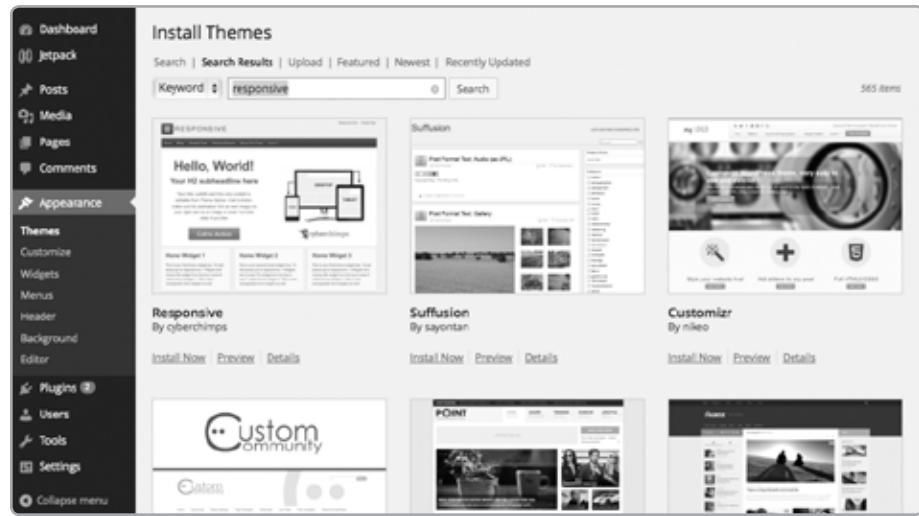


Figure 5-2: By clicking *Add New Theme* and typing a search query, you'll be able to search for free themes hosted on WordPress.org.

Once the theme has been installed onto your host, you will need to *activate* it to make it your current theme (see Figure 5-3). Remember, themes can vary the look of your site tremendously. Check out Figure 5-4, which shows identical content with two different themes enabled. Look at the differences in how the quote post looks, and notice how the post below it with the featured image is displayed differently with each theme.

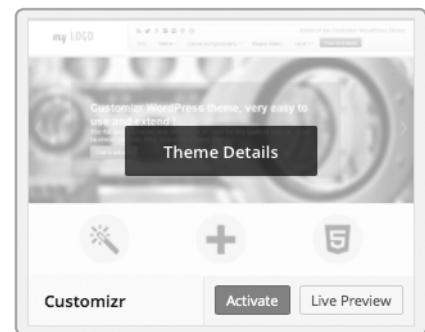


Figure 5-3: Once a theme has been installed onto your host, you can activate that theme.

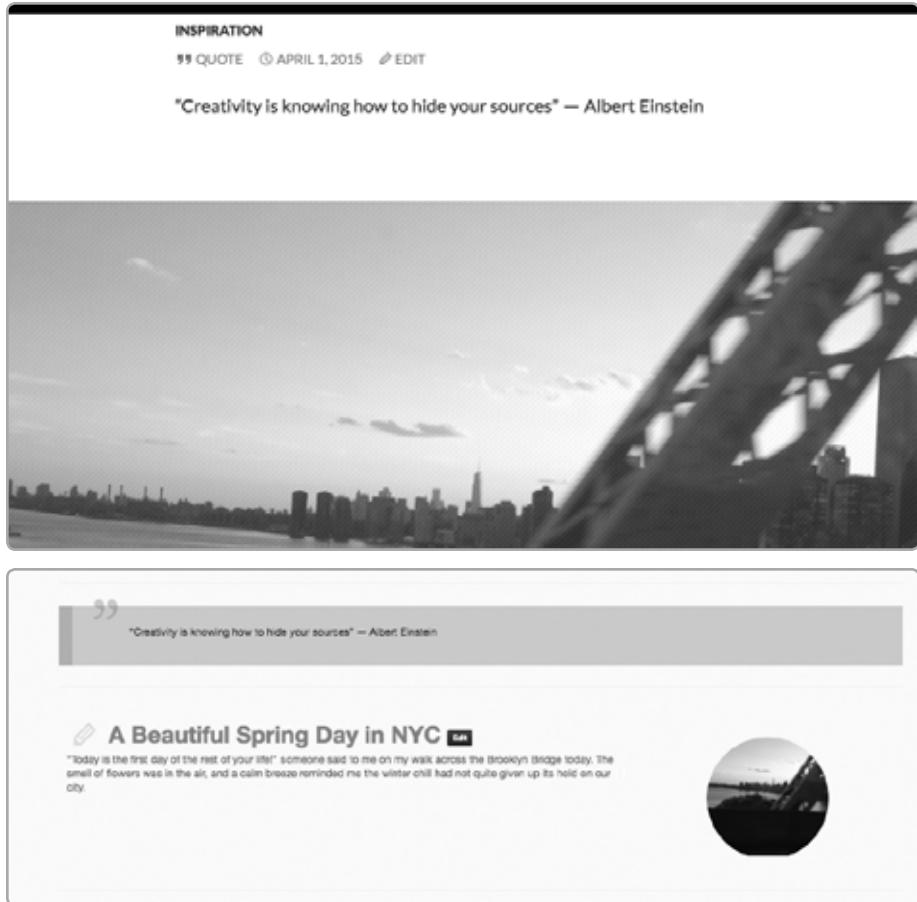


Figure 5-4: The same posts viewed with the Twenty Fourteen (top) or Customizr (bottom) themes active.

You may also wish to install themes that aren't included in the WordPress.org directory. There are several websites where you can find free themes or purchase themes for WordPress. One of the easiest ways to install a theme you downloaded from a third-party website is to upload a Zip file to WordPress and then activate the theme as just described. Be careful only to upload themes to your site that come from reputable developers. There are several high-quality marketplaces for themes, like ThemeForest (<http://themeforest.net/>), WooThemes (<http://woothemes.com/>), and StudioPress (<http://studiorpress.com/>).

If you want to redesign your site, it's just a few simple clicks to activate a whole new theme. And because the content of your site is stored separately from the theme, you won't have to rewrite your pages or upload new photos when you make changes to your theme.

CUSTOMIZING YOUR THEME

Of course, a theme is not necessarily going to look exactly how you want it to right from the get-go. Luckily, WordPress themes offer a wealth of options for you to tweak and customize your theme according to your needs and tastes. First, for some straightforward customization options, go to the **Appearance ▶ Header** section (see Figure 5-5). This allows you to style the fonts and colors of your header and even allows you to upload banner images that are displayed in the header of your blog.

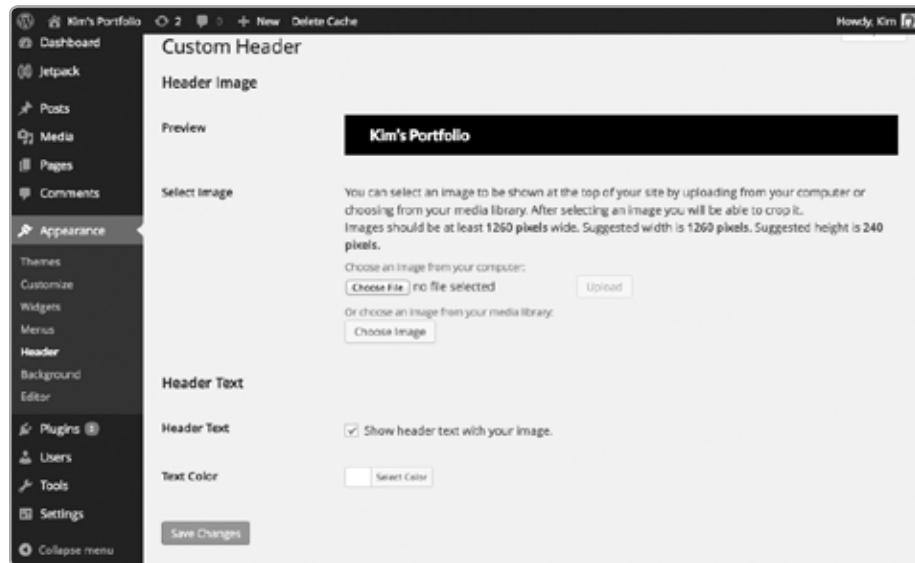


Figure 5-5: The Custom Header section of the Twenty Fourteen theme. The Header section of the Appearance Panel allows you to upload a custom header or change the color of the header font.

You can also design a logo and upload it to the header so that your site looks uniquely your own and is branded the way you'd like.

It's becoming more common for themes to have sections for Appearance ▶ Customize. Figure 5-6 shows the Customize section for the Twenty Fourteen theme. With it you can change some of the colors as well as set a background image for the frontend of your site. More complex (and often premium) themes might include a separate section called Theme Options, as shown in Figure 5-7, which allows for a wider degree of customization. For example, many modern themes include options for changing the fonts from a drop-down menu without needing to modify the code.

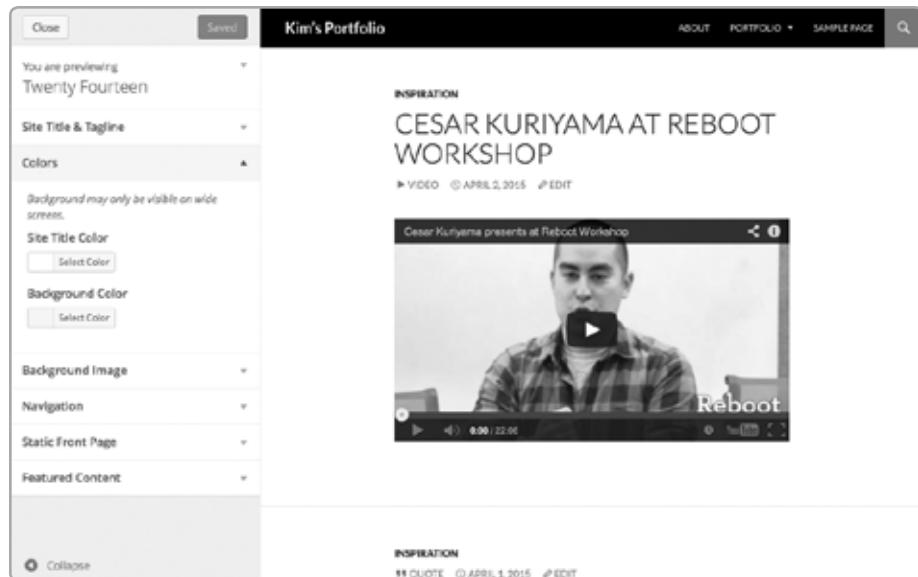


Figure 5-6: The Appearance > Customize section of the free Twenty Fourteen theme that comes with WordPress. Use this section to tweak colors or add a background image. The Customize section will vary from theme to theme, so be sure to check this whenever you activate a new theme to see what options are available.

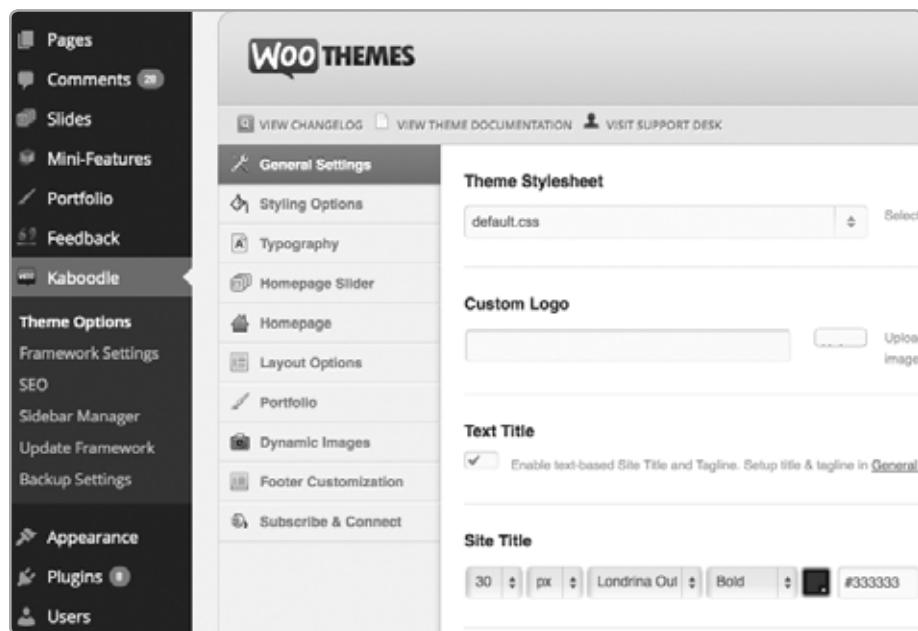


Figure 5-7: The Theme Options section of a theme made by WooThemes. So-called premium themes often advertise a wealth of features that extend the functionality of WordPress, like the ability to change the font or layout without coding. You'll often find a Theme Options section included with these themes.

When you install a new theme, it will come with page templates, as shown in Figure 5-8, which allow you to customize the layout of certain pages. Twenty Fourteen comes with three page templates. Choosing Full Width Page, for example, will remove the right sidebar from that page, as shown in Figure 5-9. While Twenty Fourteen does not allow you to change these templates without going into the code, some themes will allow you to customize layouts in the Theme Options or Customize sections of the Appearance Panel. Once you've chosen a layout, you'll need to assign that layout to a page by going back to the visual editor and selecting that template in the Page Attributes box. This is the same place we set up child pages in Chapter 4.

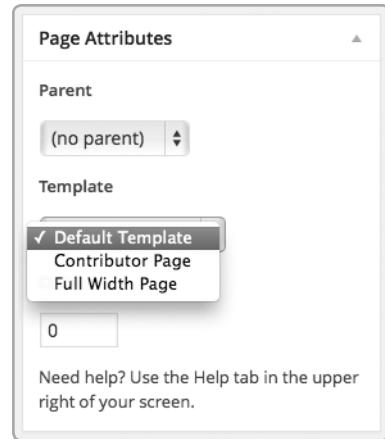


Figure 5-8: You can assign a page template to change the layout of that one particular page.

The image contains two screenshots of a WordPress site using the Twenty Fourteen theme. The top screenshot shows the 'Default Template' page, which includes a sidebar with 'RECENT POSTS', 'RECENT COMMENTS', and 'ARCHIVES'. The main content area displays a post titled 'Hello World' with bold and italicized text, and a calendar for May 2014. The bottom screenshot shows the 'Full Width Page' template, where the sidebar is removed, resulting in a wider main content area.

Figure 5-9: The Default Template (top) and the Full Width Page (bottom) from the Twenty Fourteen theme

If you're building a simple site or blog, using a free theme may be enough, but if you want to have a portfolio, highly customizable slideshows, or an e-commerce store built into your site, it's often very easy to find a premium theme that does the job for a one-time fee set by the developer.

Customizing Your Navigation Menu

In most themes, you'll also see a lot of basic customization options under Appearance ▶ Menus. Here you can choose what pages, posts, or other content you want to appear in the navigation menu on your site. Let's give it a try.

NOTE If you see that the boxes on the left are gray, as in Figure 5-10, you need to create a menu first: Type **Menu** in the Menu Name field, and then click **Create Menu**.

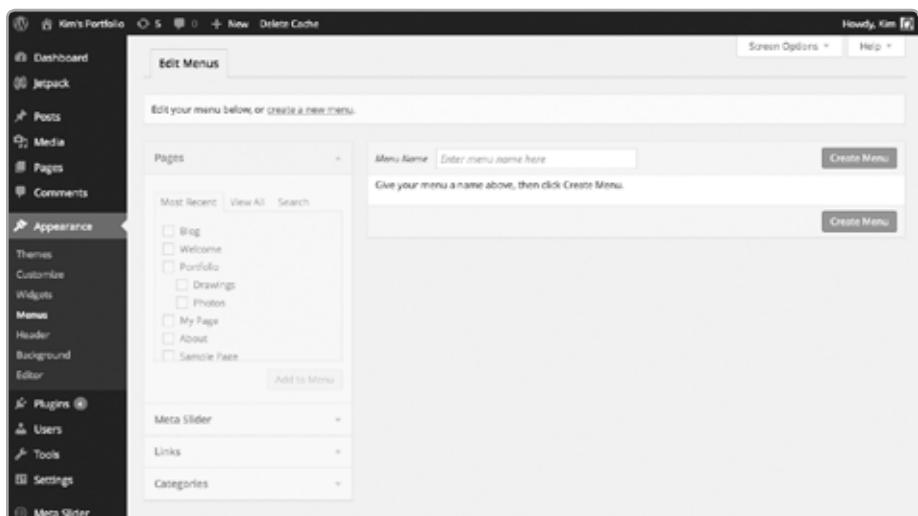


Figure 5-10: You'll need to create a menu before you can add items to it.

A custom menu allows you complete freedom to choose which tabs appear in the navigation bar on your site. Earlier we saw that when we added a page into our site it was automatically added to the menu. But this screen will give us complete control over what a user sees on our site.

To add pages to your navigation menu, simply check the box to the left of the item you want to add and then click the **Add to Menu** button (see Figure 5-11).

You may also want to give visitors quick access to other areas of your site—for example, a category of blog posts. You can add categories to a navigation menu just as easily as adding pages.

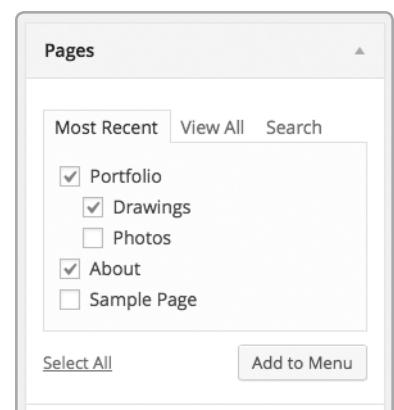


Figure 5-11: Add pages into the menu by checking the boxes next to the page name and then clicking the Add to Menu button.

In Figure 5-12, we see the Book Reviews category in our menu. That means users can now simply click that link and WordPress will show all of the posts filed under Book Reviews.

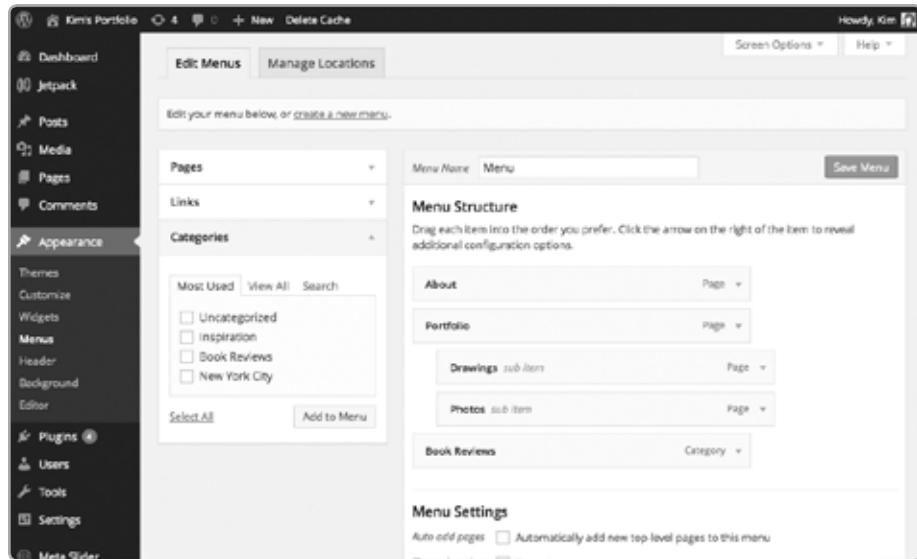


Figure 5-12: When you create custom menus, child-parent relationships between pages are ignored. Dragging menu items to the right, underneath another item, creates a subitem.

You can even add custom links to external sites. For example, what if you have an Etsy or eBay store and you want to give visitors quick access to that in the menu? You can simply add a custom link and set the label to *Store* (see Figure 5-13).

Note that your theme may support more than one menu. For example, some themes have a menu in the header and a different menu in the footer. Be sure to set where you'd like the menu to appear in the area labeled Theme Locations. *Theme locations* are specific areas of a web page where the theme allows you to place a menu. In Twenty Fourteen we have two theme locations, one in the header called *Top primary menu* and another in the sidebar labeled *Secondary menu in left sidebar*.

To test out our menu, let's check **Top primary menu**. You may also want to check the box labeled "Automatically add new top-level pages to this menu" (see Figure 5-14). This ensures that any time you publish a page it will automatically be added into your menu. Whenever you make a change, click the Save Menu button to update your menu.

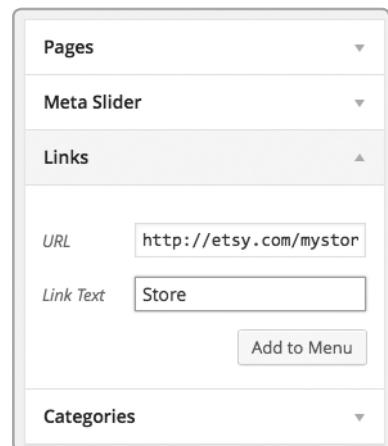


Figure 5-13: Adding a custom link to your menu

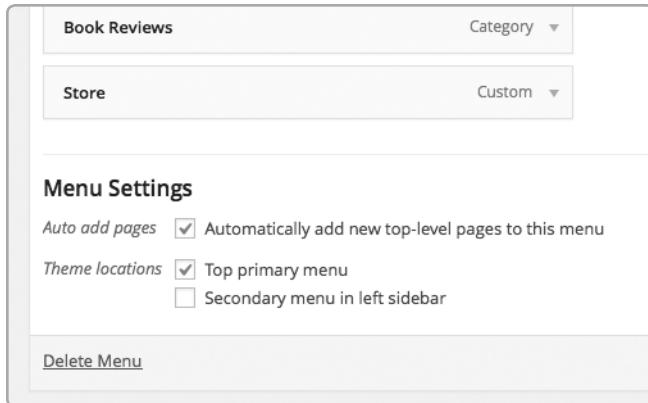


Figure 5-14: By assigning a theme location for your menu, you tell WordPress where the menu should go within the current theme. Twenty Fourteen has two possible menu locations, one called Top primary menu and another called Secondary menu in left sidebar.

If you haven't done so already, scroll down the page until you see the Pages section; check About, Portfolio, Photos, and Drawings; and then click **Add to Menu**, as shown in Figure 5-15.

After you click **Add to Menu**, you should see that the pages have been added to the menu on the right. The cool thing about custom menus is that you can drag and drop them to set the order. Try dragging the order around so that About is first, followed by Portfolio, then Drawings, and finally Photos, as shown in Figure 5-16.

Now click **Save Menu** and take a look at the frontend of the site. Notice how the first page in the menu in the Dashboard corresponds to the first page on the menu on the frontend. Drawings and Photos are sub items underneath Portfolio.

Did that work? Pretty cool, right? Now go back to your Dashboard and try to add the Book Reviews category and a custom link to your menu. If you are able to, great—but most likely you won't see the Categories or Links sections available. That's because you have to enable them in the *Screen Options* tab. More on that next.

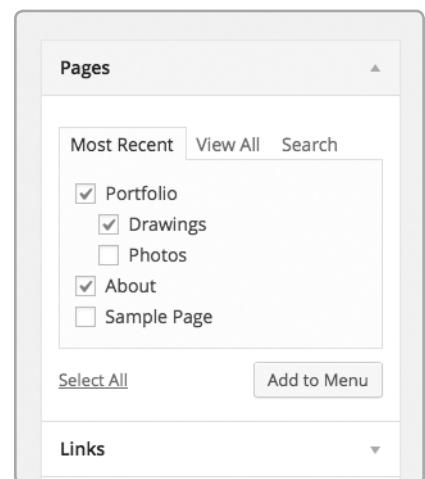


Figure 5-15: With custom menus, you specify which items you'd like to live within a menu rather than having WordPress automatically place all of the pages in the menu for you. You might have some pages that aren't in the menu at all but are still part of the site. This makes for clean navigation and more flexibility with organizing larger sites.

The screenshot shows the 'Menu Structure' section of the WordPress Custom Menu editor. At the top, there are input fields for 'Menu Name' (set to 'Menu') and 'Menu'. Below this, the title 'Menu Structure' is displayed. A note says: 'Drag each item into the order you prefer. Click the arrow on the right of the additional configuration options.' A list of menu items is shown in boxes, each with a 'Page' or 'Category' dropdown and a small downward arrow icon:

- About
- Portfolio
 - Drawings *sub item*
 - Photos *sub item*
- Book Reviews
- Store

Figure 5-16: Once pages have been added to a custom menu, you can drag and drop to reorder them.

Understanding the Screen Options Tab

Occasionally things may not be as they seem in the Dashboard; you think you should be able to do something but can't see an option to do it. In the previous section, we added a link to a hypothetical Etsy store, but what if we want that link to open in a separate window? It seems like we should be able to do that, but the option isn't apparent.

Go back to **Dashboard** ▶ **Appearance** ▶ **Menus**, scroll to the upper right, and click **Screen Options**, as shown in Figure 5-17.

This tab, which appears at the top of every screen in the WordPress Dashboard, has lots of goodies in store. As we're editing the navigation menu, clicking this tab will provide some more options that don't show up on the main **Appearance** ▶ **Menus** screen. In this case, Screen Options shows us a list of elements with checkboxes (see Figure 5-18). If we were in the visual editor for a post or if we were in the All Pages section, for example, we'd see a different set of options. When we check a box next to an option, we'll see that feature available to us in the navigation menu. For now, make sure the following are checked: Links, Categories, Pages, and Link Target.

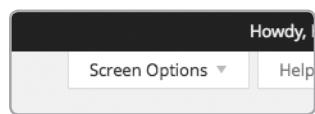


Figure 5-17: The *Screen Options* tab in the upper-right corner of the Dashboard

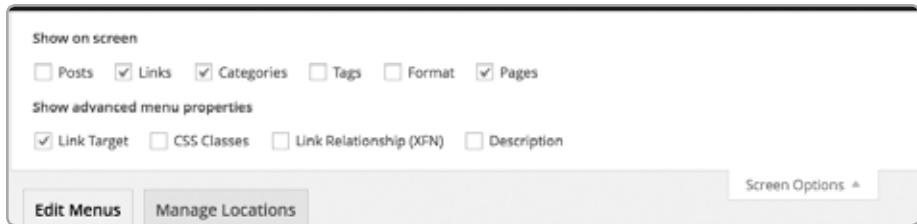


Figure 5-18: The Screen Options panel allows you to enable or disable options for the current screen.

If you weren't able to add a link or category before, you should now see those options on the left as in Figure 5-13. Try adding a link to your menu: in the Links section under URL, type <http://etsy.com/mystore> and under Navigation Label, type **Store**. We should see an option underneath our Etsy link that says, "Open link in a new window/tab" (see Figure 5-19). If you ever find yourself in the Dashboard wondering why you can't figure out how to do something, check the Screen Options tab to see what you're missing!

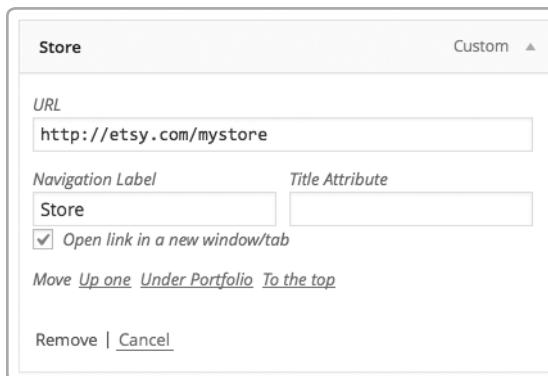


Figure 5-19: Opening a link in a new window with the Link Target option enabled

Customized Settings

Moving further down along the left sidebar of the WordPress Dashboard, you should see a Settings tab, as shown in Figure 5-20. This is where you control options that affect the entirety of your WordPress site. There's a lot to this section, so let's just take a look at the "greatest hits," if you will, of the WordPress settings.

Settings ▶ General is where you can change your site's title and tagline. The *tagline* is kind of like a slogan or one-sentence description of your site. Depending on your theme, it's usually visible beneath the title at the top of your pages on the frontend. If you don't intend to use a tagline, just delete

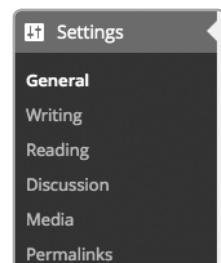


Figure 5-20: WordPress settings

what's there and leave it blank (though leaving in a tagline is often good for search engine optimization). If you've made changes, you'll need to click the Save Changes button at the bottom of the screen.

NOTE Many people never bother to change WordPress's generic tagline "Just another WordPress site" to something else. Just for fun, try googling "Just another WordPress site." You can see that there are millions of people who didn't bother changing it. Don't let that be you!

Settings ▶ Reading is where you can change the structure of your site (see Figure 5-21). To see what I mean, go to **Pages ▶ Add New** and name your new page **Welcome**. Type a simple sentence in the content box, like **Welcome to My Site!**. Now click **Publish**. Next, add another page and call it **Blog**. Publish it as well. Under **Settings ▶ Reading**, you'll see that the site is set by default to display your latest posts on the front page. This means that the first page in your site is your blog page.

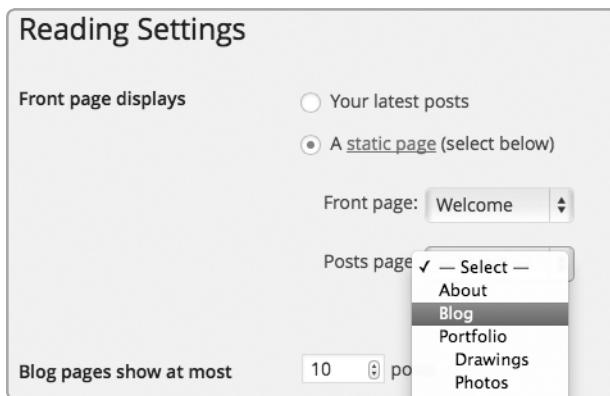


Figure 5-21: In **Settings ▶ Reading**, you can set the site to open up to a static page rather than your posts page.

What if you'd like to have a splash page on the first page and put your posts on that blog page we just created? Select **A static page**, and then from the drop-down menu select **Welcome**. Then for **Posts page**, select **Blog**.

When you click the **Save Changes** button, your site should be automatically reorganized. Go back to **Appearance ▶ Menus** and add the Welcome and Blog pages to your menu. Switch back to the frontend. You should see that the first page is the blank Welcome page that we've just created—not your posts. If you click Blog in the menu, you'll see your posts there.

There are a lot more options to play with here in the Settings tab, although I don't have space to describe each of them in detail. You can change everything from the default sizes of images to the settings for comments to the number of posts that show up on your blog's main page. If you are feeling curious, go ahead and experiment with some of these settings to see how else you can tweak your site. If you ever get stuck, there's plenty of documentation online that will help explain how each setting works (see "For More Help" on page 215).

Here is a quick rundown of the built-in settings and what you'll find there:

- **Settings ▶ Writing:** Customize your blog posts with different options, including proofreading (WordPress.com and Jetpack only) and default post categories.
- **Settings ▶ Discussion:** Enable or disable comments. Get an email whenever a comment is made.
- **Settings ▶ Media:** Set default sizes for Thumbnail, Medium, and Large photos.
- **Settings ▶ Permalinks:** Change the structure of the page and post URLs (important for SEO and human readability).

Advanced Customization

If your website is hosted through WordPress.com, there are some limits as to how much you can customize your website. If you want to make changes that go beyond playing with the options and settings described already, you'll need a Custom Design upgrade. For an annual fee, this upgrade enables you to dig into the code of your site and write your own CSS into the theme. Otherwise, you are limited to the customization options already built in to the Dashboard for your theme.

If you are hosting your website yourself through your own host, there are no limits to how much you can customize your site. If you are self-hosting, you'll notice an additional option in the Appearance Panel of your Dashboard: Appearance ▶ Editor. This gives you full access to the underlying code of your theme. If you choose to build a custom theme or if you want to modify more than the CSS on your site, a self-hosted version of WordPress will give you almost unlimited abilities to do so. You can even use your knowledge of FTP to log in remotely and upload your own manual changes to the code—further proof that knowing HTML/CSS is important!

If you'd like to experiment, try changing the fonts for the paragraphs in your theme. At the bottom of the stylesheet, add the following code:

```
p { font-family: times, serif;}
```

This should change all of the paragraphs on your site to Times from Helvetica or Arial. Now it's just a matter of determining which element you'd like to change and then adding the appropriate CSS rules to change that element. As a challenge, see if you can change the colors of the links.

Even though tweaking code in the editor works, it's not considered a good practice. If you are planning on making code changes to an existing WordPress theme, you will likely want to explore the process of *child theming*. This is a way to make changes to the code of a theme without destroying the original code. You may also want to look at setting up testing sites locally on your computer. These options are all outside of the scope of this book, but you can find more information at https://codex.wordpress.org/Child_Themes/ and https://codex.wordpress.org/Installing_WordPress_Locally_on_Your_Mac_With_MAMP/.

Plugins

Plugin is a broad term for a program that can be installed to add functionality to your website. For example, you might use a plugin to process credit cards if you're selling ebooks on your site. There are other plugins that speed up the performance of your site, called *caching plugins*. There are plugins to help with SEO and analytics (measuring how popular you are!). The variety and availability of plugins is one of the reasons WordPress is so popular.

NOTE *Plugins are available only if you are hosting the site yourself (i.e., using a host other than WordPress.com). If your site is hosted through WordPress.com, you won't be able to install any plugins. But WordPress.com does come with a lot of features preinstalled, sometimes eliminating the need for additional plugs.*

Adding plugins to your site allows you to do a number of things that you aren't able to do with a normal WordPress site. But if you start installing plugins, you'll need to stay on top of any future updates. Older, out-of-date plugins can cause security vulnerabilities and allow your site to get hacked. Don't worry too much, though. As long as you stick with standard plugins and are good about updating them, WordPress should remain a robust way of managing your site.

Scroll down on the left-hand side of your Dashboard, and you should see a Plugins tab, as shown in Figure 5-22. If you don't see that tab (and your site is self-hosted), make sure that you are signed in to an administrator account for the website.

Let's try to install a cool plugin called Meta Slider. This is a slideshow plugin that lets you create a gallery of images. Go to **Dashboard** ▶ **Plugins** ▶ **Add New** and type **slider** in the search field (shown in Figure 5-23). You should see a big list of slideshow plugins available. All of the plugins in this directory are free to install and try out, so if you are experimenting with something new you can always install it, try it, and then get rid of it if you don't like it.

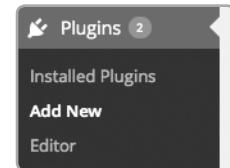


Figure 5-22: Adding a new plugin to your site

A screenshot of the 'Install Plugins' search results page. The search bar at the top contains the word 'slider'. Below the search bar is a table with columns: Name, Version, Rating, and Description. There are three rows of results: 1. 'Slider' (Version 2.0, 5 stars) - Description: 'HugeIT Slider is a quick and easy way to add custom sliders to the WordPress websites (both to templates and posts/pages). The slider allows having unlimited amount of images with their titles and descriptions. The slider uses autogenerated shortcodes making it easier for the users to add it to the custom location. The features of the slider: Unlimited amount of images to be added to the slide... By http://huge-it.com.' 2. 'Smart Slider 2' (Version 2.3.0, 5 stars) - Description: 'Smart Slider 2 comes with an intuitive interface for backend, which makes easy for anyone to design beautiful sliders in minutes. Grab a new layer, move it on the canvas. Finally drag&drop some items with your mouse and your slide is ready. Our customers highly recommend Smart Slider 2. DEMO | PRO VERSION PAGE | DOCUMENTATION Most powerful features. User-friendly admin... By Neuron.' 3. 'Promotion Slider' (Version 3.3.6, 5 stars) - Description: 'Promotion slider is a jQuery slider that makes it easy to insert a simple slideshow, or implement multiple rotating ad zones, on a webpage. Because it is highly-customizable, you are in complete control of what shows on the slider, what shows on your promotion pages and how it all works. A simple options page and straight-forward shortcodes provide great flexibility to the average user, while po... By Milos Woid.' The bottom right corner of the table has a small note: '726 items'.

Figure 5-23: Searching the plugin directory for slider

One good way to see if a plugin is worth trying is by clicking the Details button underneath the plugin name. Along with other information, this will give you some indication of what others thought of the plugin before you install it on your site, as shown in Figure 5-24.

The screenshot shows a modal window titled 'More information about Meta Slider 2.7.2'. At the top, there's a navigation bar with tabs: 'Description' (which is selected), 'Installation', 'Screenshots', 'Changelog', and 'FAQ'. Below the tabs is a large 'Install Now' button. The main content area is divided into sections: 'Description', 'Includes', 'Features', and 'FYI'. The 'Description' section contains a detailed description of the plugin. The 'Includes' section lists four slider types: Flex Slider, Nivo Slider, Responsive Slides, and Coin Slider. The 'Features' section lists five features: simple interface, SEO optimization, unrestricted support for image slides, and full-width support. To the right of the main content, there's a sidebar with 'FYI' information: Version 2.7.2, Author Matcha Labs, Last Updated 1 week ago, Requires WordPress Version 3.5 or higher, Compatible up to 3.8.1, Downloaded 620,313 times, a link to the WordPress.org Plugin Page, and a link to the Plugin Homepage. Below this is a 'Average Rating' section showing a 5-star rating based on 174 ratings.

Figure 5-24: Clicking the Details link gives you more information about the plugin, including ratings, screenshots, and FAQs.

Scroll down the list of slider plugins until you find the plugin Meta Slider and click **Install Now**. Just like when you're installing a theme from WordPress, this will download the plugin files to your host and make them available for use on your site. After the plugin has been installed, click **Activate Plugin**. Unlike with themes, you can have *many* active plugins running simultaneously, all performing different functions.

Once you have activated Meta Slider, you'll see a tab for it in your Dashboard underneath Settings. Not all plugins show up here—you'll want to read the instructions for each plugin to find out how to use that particular one.

Click the tab to find the settings for Meta Slider, and you'll be taken to the management screen for this plugin. Click the **+** button at the top of the screen to create your first slideshow, which we can then use in our site. You can name your slideshow by clicking **New Slider** and then typing a name.

Let's say we want to put a slideshow on our Welcome page. Give your slider the name **Welcome Slider**. Now we can add images into our slider. Click the **New Slide** button at the top. Meta Slider will look at our Media Library to choose images, or it will use the image uploader to allow us to add new ones. Add two or three images into your slider by selecting the images and clicking **Add to Slider**.

You've just created a slideshow! Click the **Save & Preview** button to see your slideshow in action. Below this button, you'll see a number of settings that will allow you to adjust the animation speed or the style of transitions. There's a lot to play around with. But how do we put the slideshow on our Welcome page? Meta Slider works with what's called a *shortcode*. If you scroll all the way down on the right-hand side, you'll see a box labeled **Usage** and within that a tab labeled **Shortcode** (see Figure 5-25).

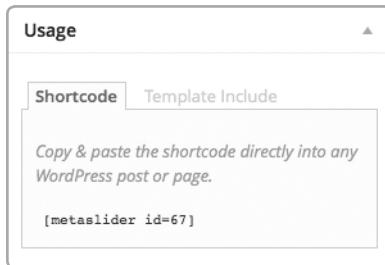


Figure 5-25: Shortcode for Meta Slider

A *shortcode* is a type of code that you can copy and paste into an area of your site that automatically references a plugin, widget (see “Widgets” on page 210), or theme element. Some themes come with shortcodes that allow you to instantly create buttons or other visual elements without having to write the code from scratch!

Copy the shortcode from the box and then navigate to your Welcome page by selecting **Pages ▶ All Pages** on the left side of the navigation (you can also insert the slider anywhere you like, if you don't have a Welcome page). Meta Slider also has an Add Slider button in the visual editor that will insert the shortcode. Because a shortcode isn't a general coding language like HTML, there's no need to insert the code into the text view. Instead, you can add it right into the visual editor as is. Create a line below the text that reads **Welcome to My Site!**.

Click the **Update** button and then click **View page**. You should see that the slideshow takes the place of the shortcode in your page, as shown in Figure 5-26.

S Kim's Portfolio ○ 2 ⌂ + New View Page Delete Cache

Screen Options Help

Dashboard Jepack Posts Media Pages All Pages Add New Comments Appearance Plugins Users Tools Settings Meta Slider Collapse menu

Edit Page Add New

Page updated. View page

Welcome

Permalink: http://testing.natecooper.co/kimsportfolio/welcome/ Edit View Page Get Shortlink

Add Media Add slider Visual Text

[metaslider id=67]

Welcome to My Site!

Publish

Status: Published Edit

Visibility: Public Edit

Revisions: 3 (view) Edit

Published on: April 3, 2014 at 21:58

Move to Trash Update

Page Attributes

Parent: [no parent] Edit

Template: Default Template Edit

Order

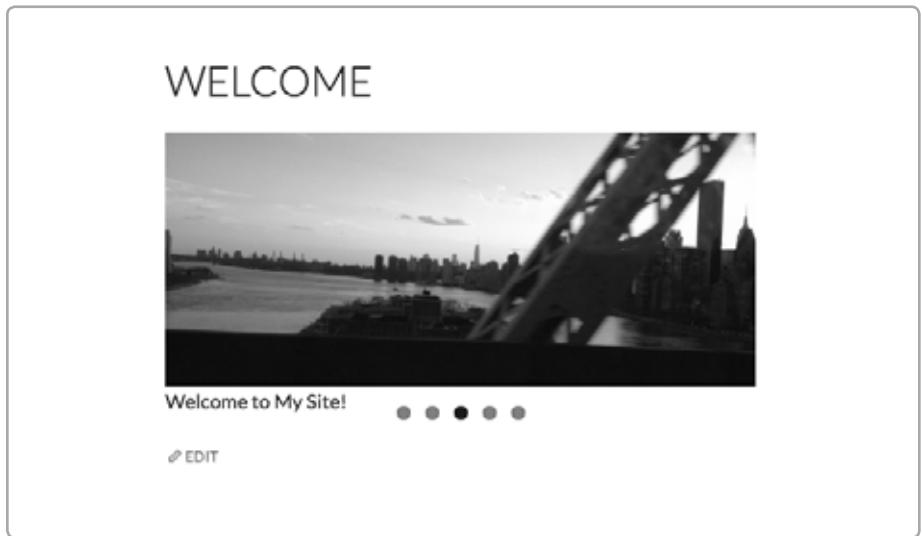


Figure 5-26: The Meta Slider shortcode in the Dashboard and the finished slider on the frontend of the site

Widgets

Widgets are a type of plugin that you can insert into your site to add a specific extra feature. But widgets tend to perform limited functions and can be slotted into only certain spots on a web page. For example, let's say you want to have your Twitter feed appear in your WordPress blog's sidebar. You can add the widgets just like you would add any other plugin by clicking Plugins ▶ Add New and then performing a search for *Twitter widget*. Or, if you don't have a Twitter account, try something like an image widget just to give it a try.

As with a plugin, we'll need to install and then activate our widget. Once the widget is installed and activated, navigate to the Widgets section of the Dashboard (see Figure 5-27). On the right side of the Appearance ▶ Widgets area is a list of where widgets can be placed in your current theme. Most themes have at least one sidebar that you can add widgets to, and some themes have several other areas where widgets can go as well, like a secondary sidebar or footer.

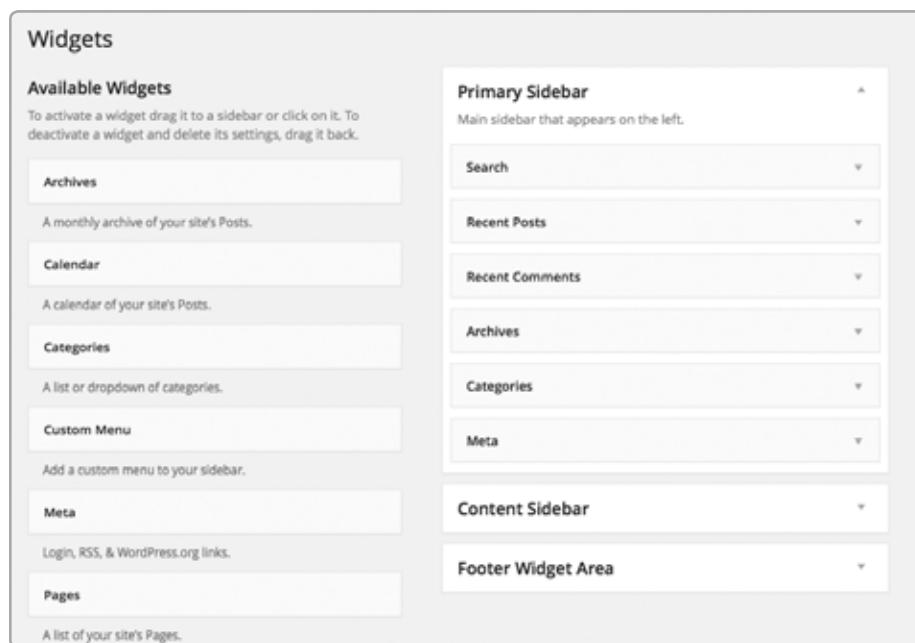


Figure 5-27: Widgets allow you to include additional little functions into areas of your site like the sidebar. These are the widget areas for the Twenty Fourteen theme.

To the left of the Widgets area, you'll see all of the available widgets that you can choose to put into your sidebar. On the right, you'll see places your widget can go! To install a Twitter widget, simply scroll down until you see Twitter and drag it to the Primary Sidebar area, as shown in Figure 5-28. If you've got a long page and dragging is difficult, you can also just click the widget and then add it to the area of your choosing (see Figure 5-29).

Widgets

Available Widgets

To activate a widget drag it to a sidebar or click on it. To deactivate a widget and delete its settings, drag it back.

Archives

A monthly archive of your site's Posts.

Calendar

A calendar of your site's Posts.

Categories

A list or dropdown of categories.

Primary Sidebar

Main sidebar that appears on the left.

Search

Recent Posts

Recent Comments

Archives

Figure 5-28: Installing a widget by dragging it to the Primary Sidebar

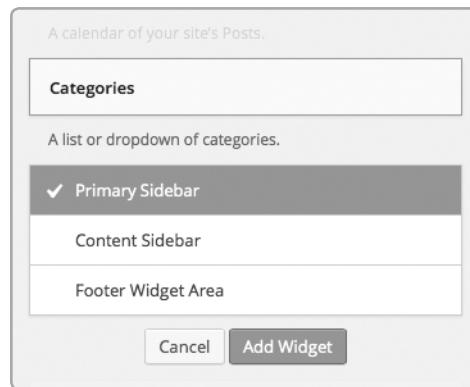


Figure 5-29: Installing a widget by clicking it and then choosing a location

Once you have a widget in your sidebar, you'll need to fill in some settings to get it to work (see Figure 5-30). Just click the triangle in the upper-right corner of the widget and fill in your username, select whatever other options you'd like, and then click **Save**.

A screenshot of a modal window for a 'Twitter' widget. The window has a title bar 'Twitter'. Inside, there is a section for creating a new Twitter widget with fields for 'Account', 'Data Widget ID', and 'Title'. Below this is a link to 'Go to the Twitter widget settings page.'. At the bottom are 'Delete | Close' and 'Save' buttons.

Figure 5-30: Setting up the Twitter widget

NOTE You'll have to get a widget ID from the Twitter website. Click the Twitter widget settings page link to be taken to your Twitter account and create a widget there. The ID will be in the address bar of your browser (see Figure 5-31).



Figure 5-31: The widget ID appears in the address bar.

When you look at the frontend of your site, you should see your tweets start to automatically show up in your sidebar, as shown in Figure 5-32.

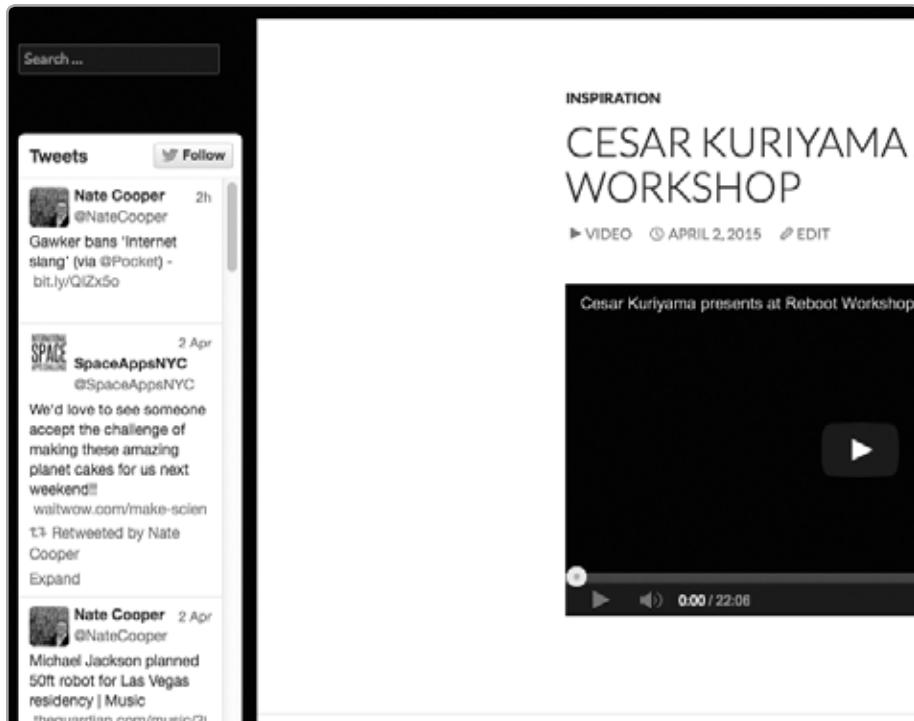


Figure 5-32: A functioning Twitter widget

Let's say that we want to remove a widget. Go back to **Appearance ▶ Widgets**, and you can drag the widget out of the sidebar to anywhere on the left.

It disappears from the sidebar. If you'd like to put it back, you can simply find it in the middle again and drag it back to the sidebar. When setting up your site, you'll want to try out different widgets to get a feel for what's available so that you can customize your site just the way you'd like.

Testing Widgets

A great way to test out widgets and additional plugins is the Jetpack plugin. Jetpack is a package of useful widgets and plugins normally available only to WordPress.com users. Just connect your free WordPress.com account to use them; if you don't have one, you can create one when you install Jetpack.

Updates

Everything you add to your WordPress site will eventually have to be updated. Updates are important for your site's safety and security. You'll need to stay on top of updates to themes, plugins, and WordPress itself. Out-of-date copies of these items can expose your site to hackers and spammers.

As of WordPress 3.7, WordPress will automatically do smaller updates for you with no action needed on your end. But for now, themes, plugins, and larger WordPress updates will need to be run manually on your site. You can tell if there is an update needed any time a number appears under the Updates section of your site. To run an update, simply go to **Dashboard > Updates**, as shown in Figure 5-33.

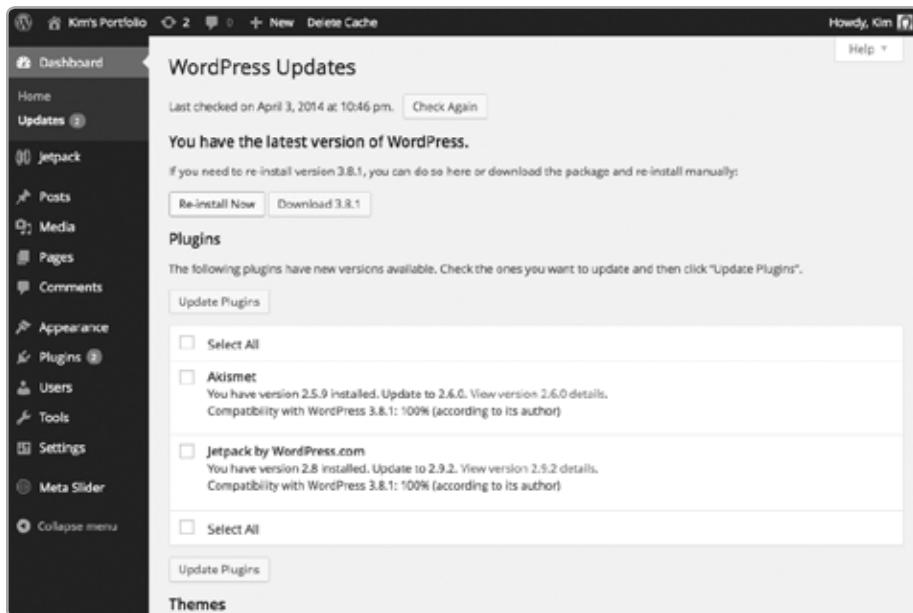


Figure 5-33: Under **Dashboard > Updates**, you'll find all available updates for WordPress itself as well as any theme or plugin updates.

For each item that needs to be updated, you'll see a notice. If more than one item needs to be updated, you can check each one and then click the Update button for that section. Running these updates regularly is a good habit to get into.

If the theme is built normally and you use standard plugins, you shouldn't run into any problems. However, if you have a custom-built theme or plugin, you might want to check that your customized version will still be compatible before you update WordPress. Otherwise, updating to the latest version of WordPress may cause that element to stop working. You never want to put yourself in a situation where running regular updates to WordPress breaks your site.

Staying on older versions of WordPress is a security risk because it leaves your site vulnerable to hacking. If you aren't sure about the compatibility of a plugin or theme, check with the developer. Reputable theme and plugin developers will usually be aware of upcoming WordPress updates and test their products to ensure they will work with current versions of WordPress. It's rare that an outdated plugin or theme will completely break your site, however.

Moving Hosts Using the Tools Panel

One cool thing about WordPress, whether you're using the free WordPress.com site or a self-hosted version, is that you're never stuck with one domain name or hosting provider. Under the Tools section, you can export your content (posts, pages, and images) and import them to another site (see Figure 5-34).

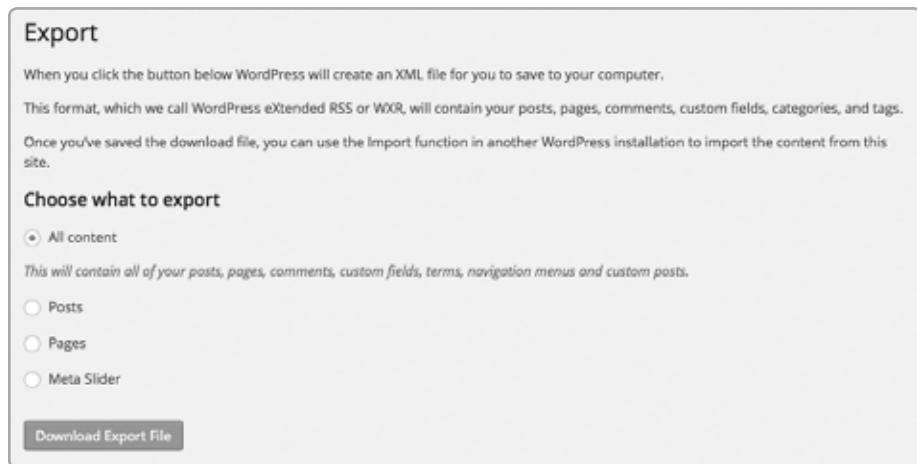


Figure 5-34: The Tools tab has an export option so that you can migrate or back up your WordPress site.

You can also import content from a number of other popular CMS tools (see Figure 5-35), so moving to WordPress is never difficult. When you choose Export, you'll get a file containing all of your content downloaded to your computer. When you have your new site set up, simply go to Import, and it brings back all of your stuff. Keep in mind that your theme won't be transferred over. On the new site, you'll have to choose the theme you'd like to use separately. But all of those posts you've spent days writing are there for you automatically once you import.

Import

If you have posts or comments in another system, WordPress can import those into this site. To get started, choose a system to Import from below:

Blogger	Install the Blogger importer to import posts, comments, and users from a Blogger blog.
Blogroll	Install the blogroll importer to import links in OPML format.
Categories and Tags Converter	Install the category/tag converter to convert existing categories to tags or tags to categories, selectively.
LiveJournal	Install the LiveJournal importer to import posts from LiveJournal using their API.
Movable Type and TypePad	Install the Movable Type importer to import posts and comments from a Movable Type or TypePad blog.
RSS	Install the RSS importer to import posts from an RSS feed.
Tumblr	Install the Tumblr importer to import posts & media from Tumblr using their API.
WordPress	Install the WordPress importer to import posts, pages, comments, custom fields, categories, and tags from a WordPress export file.

If the importer you need is not listed, [search the plugin directory](#) to see if an importer is available.

Figure 5-35: WordPress allows you to import from several popular blogging platforms.

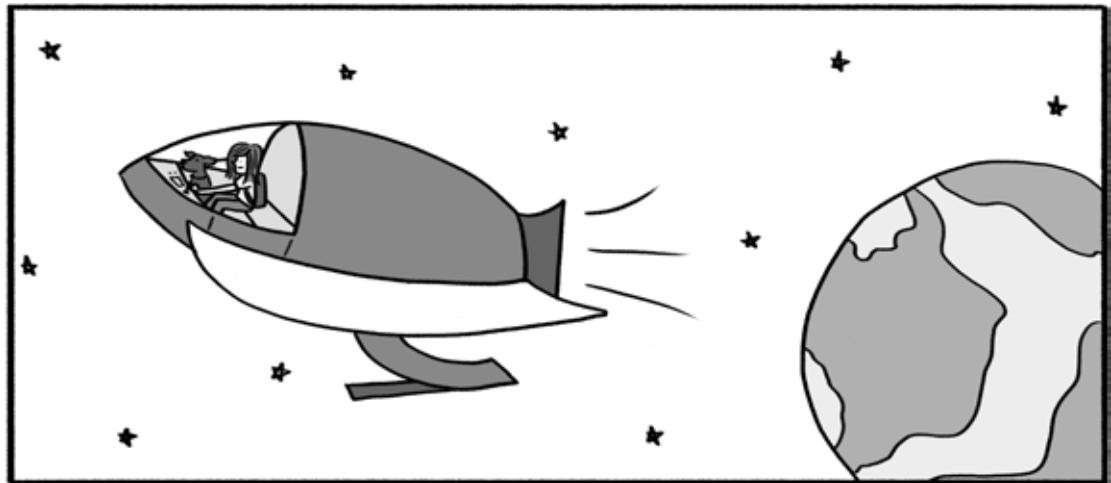
For More Help

If you're wondering where to get additional information on using WordPress and tinkering with your website, the best place to go is the WordPress Codex, which can be found at <http://codex.wordpress.org/>. Most of the time when you google a question about WordPress, you'll end up here anyway. There's the regular WordPress documentation, and there are also helpful forums where you can see questions that others have asked about WordPress. Finally, there are also a number of good sites to learn about WordPress like <http://digwp.com/>, <http://torquemag.io/>, and <http://wp.smashingmagazine.com/>. The best part about learning WordPress is that there's a wealth of free information out there and many, many people willing to provide help.

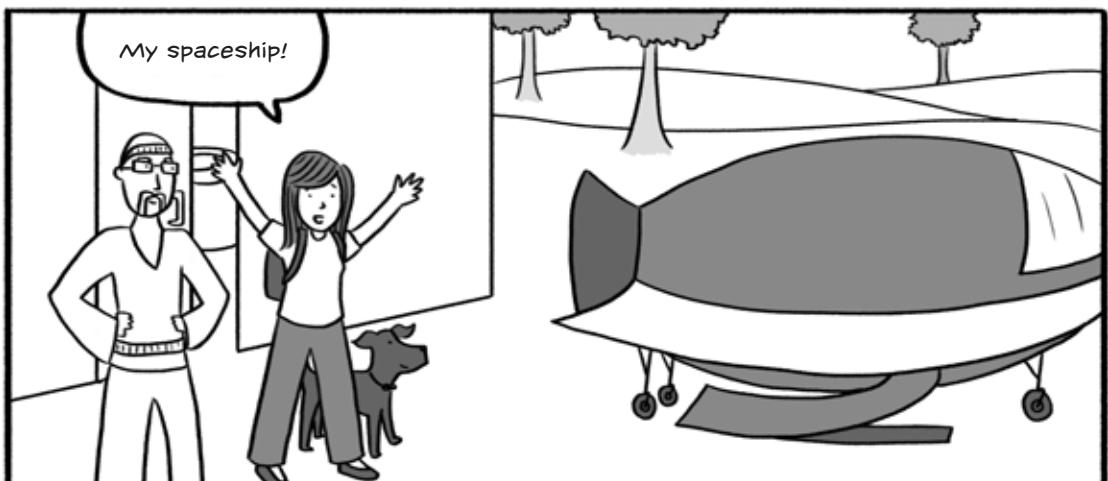
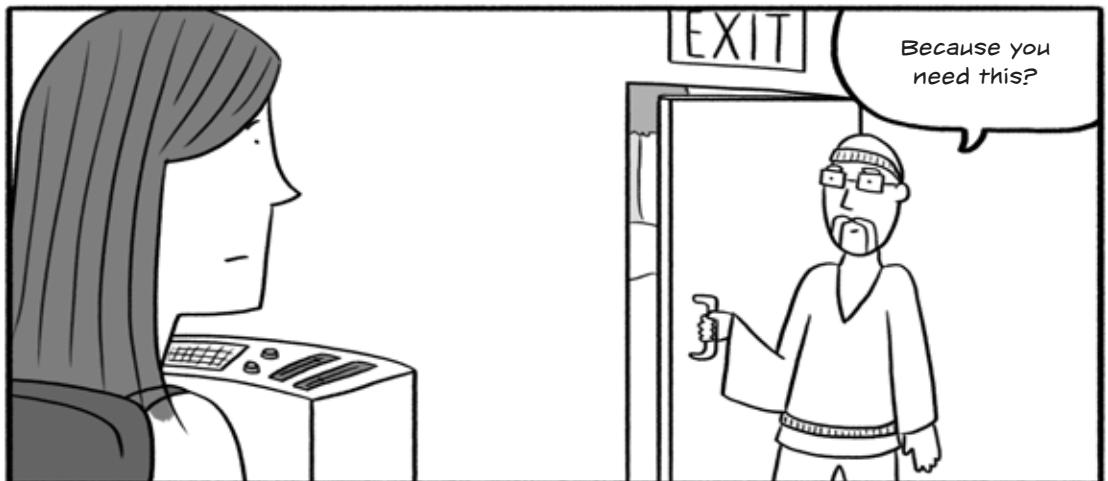
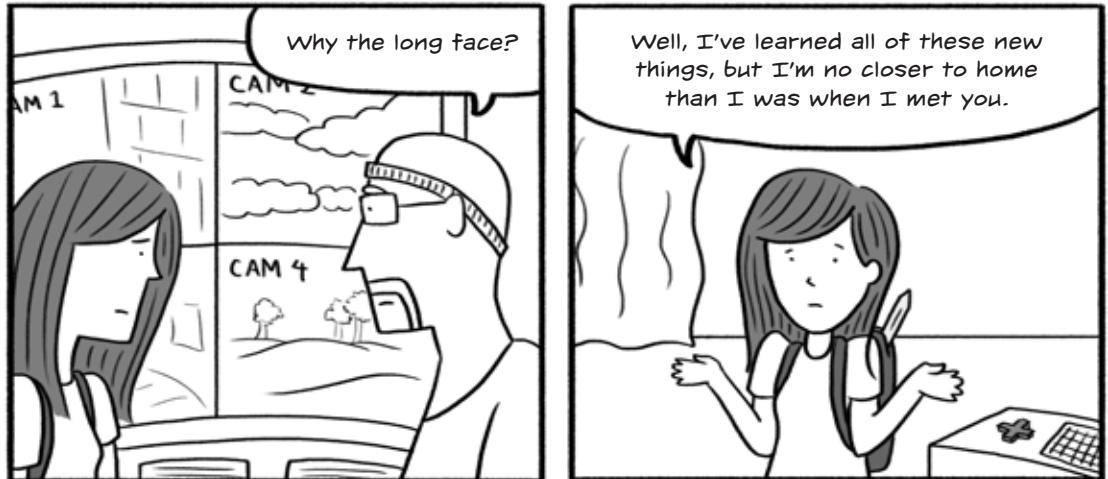
Now that you've gotten a good picture of what WordPress is *truly* capable of, go back and create an amazing plan for your site. What goes where? Organize it all and get blogging. The sky is the limit.

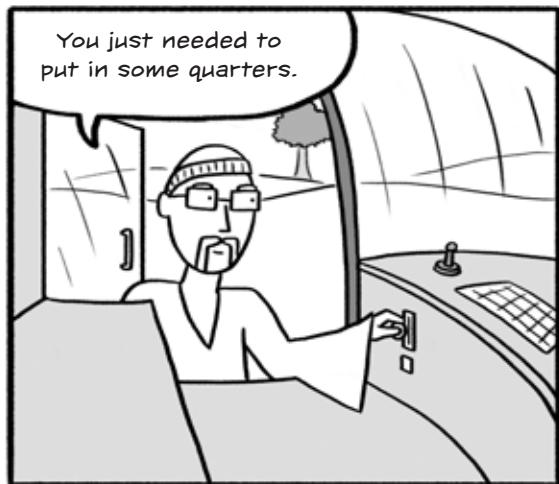
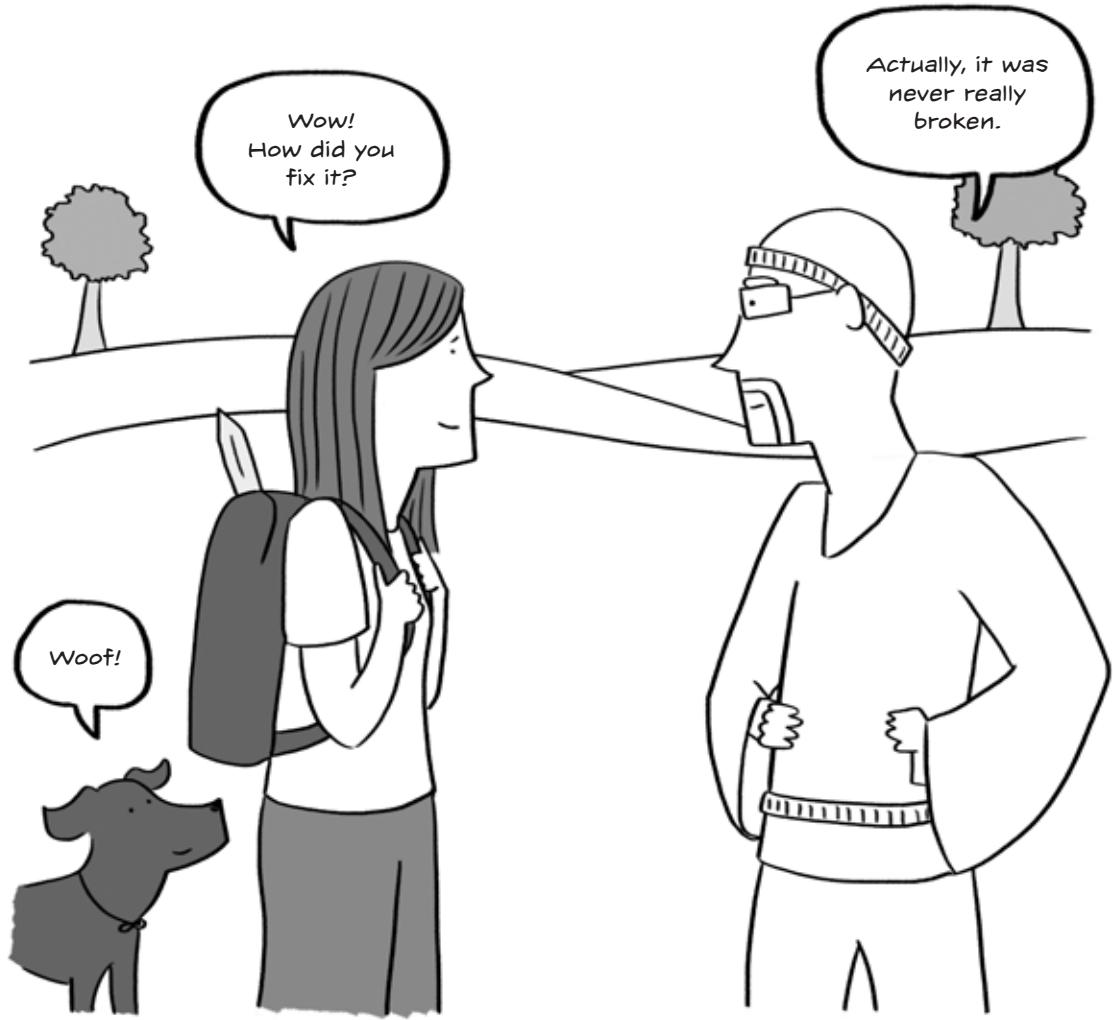
6

The Big Launch



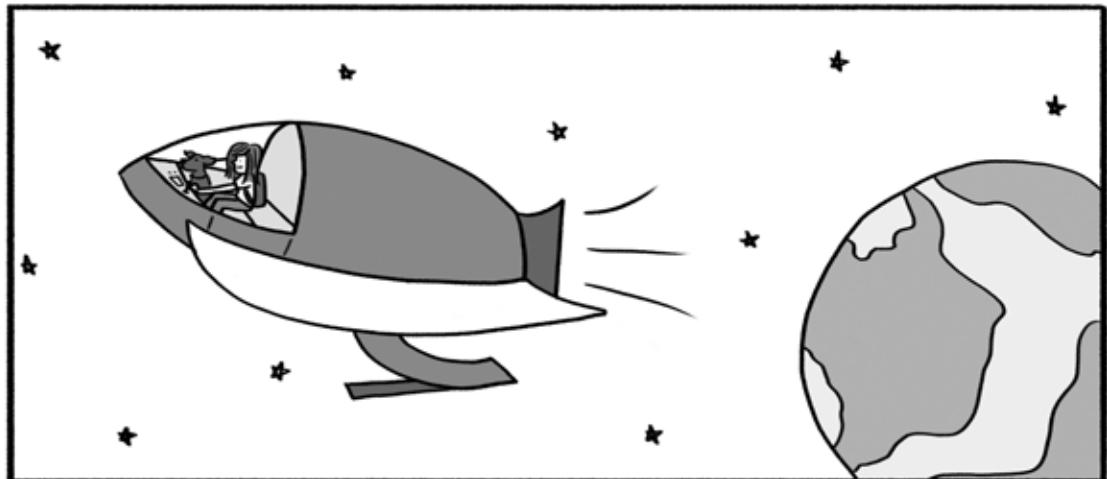
There's No Place Like Your Web Host



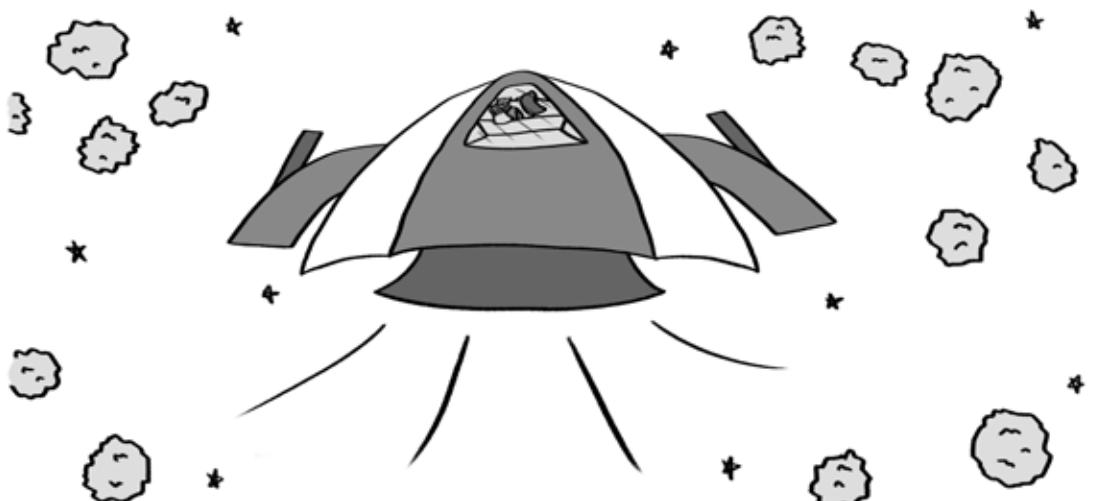


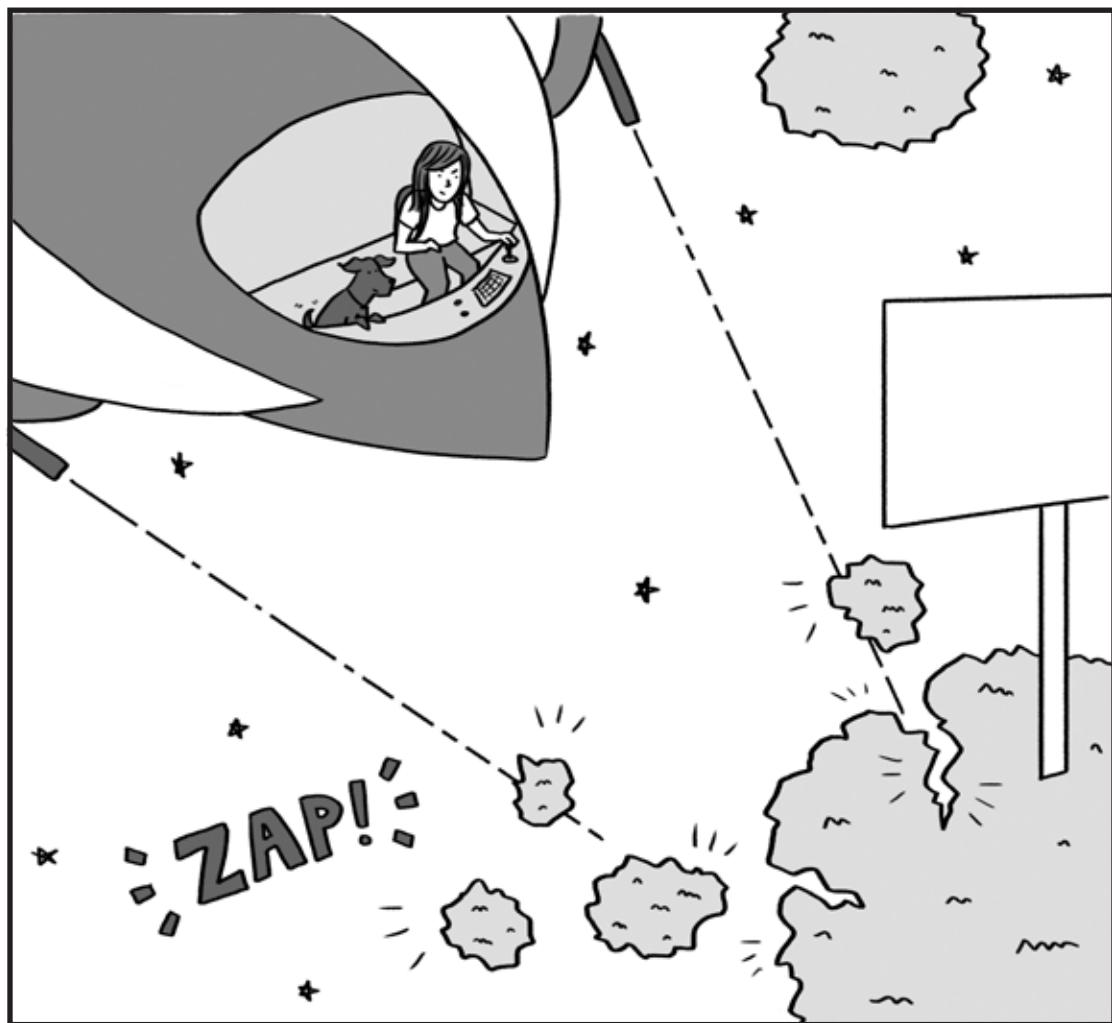


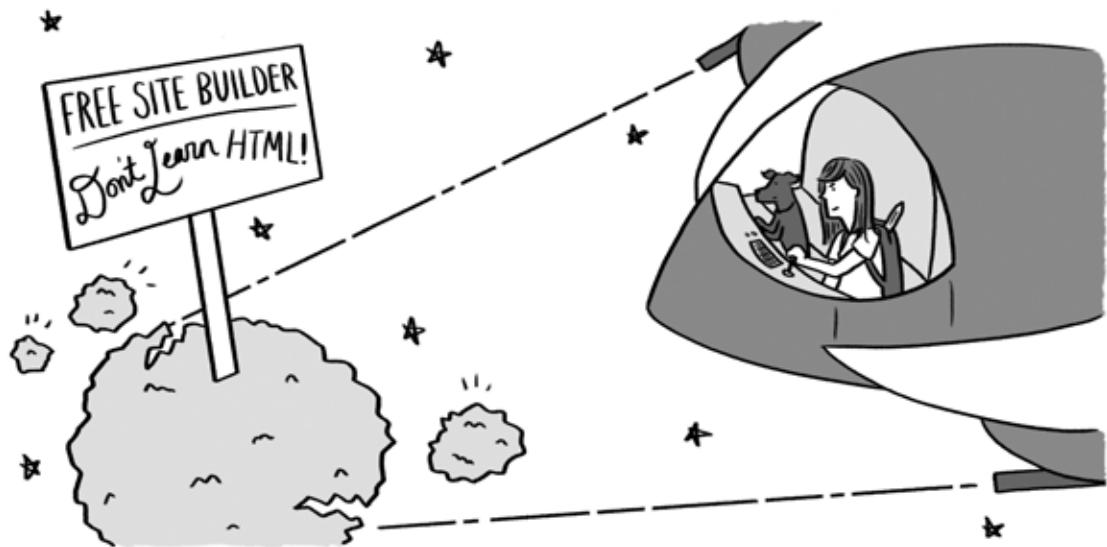


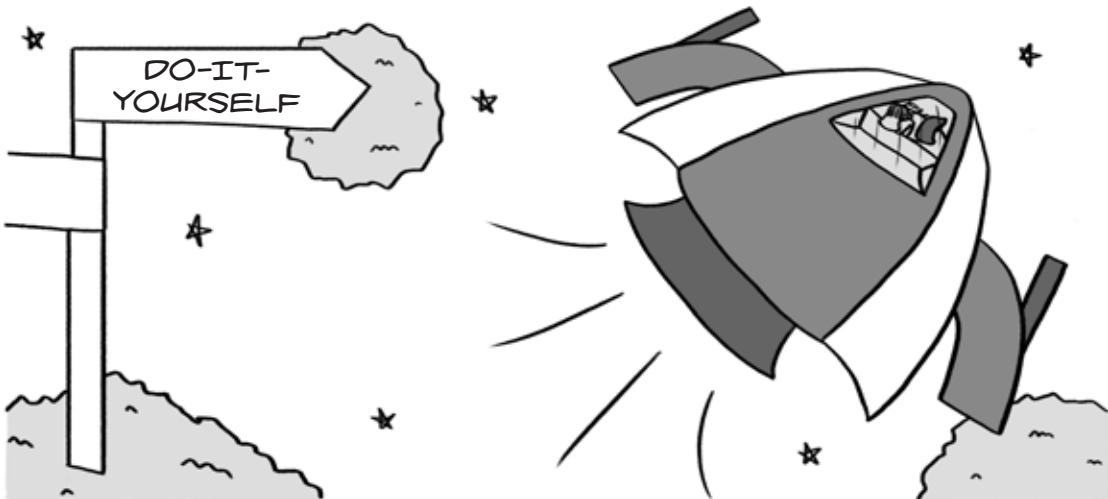
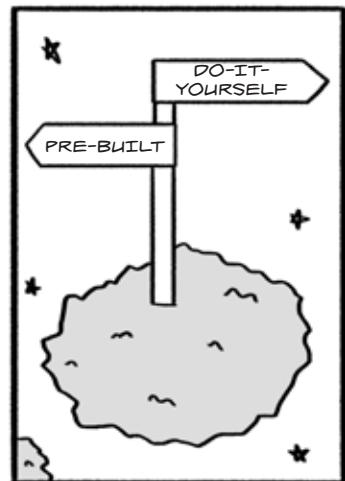
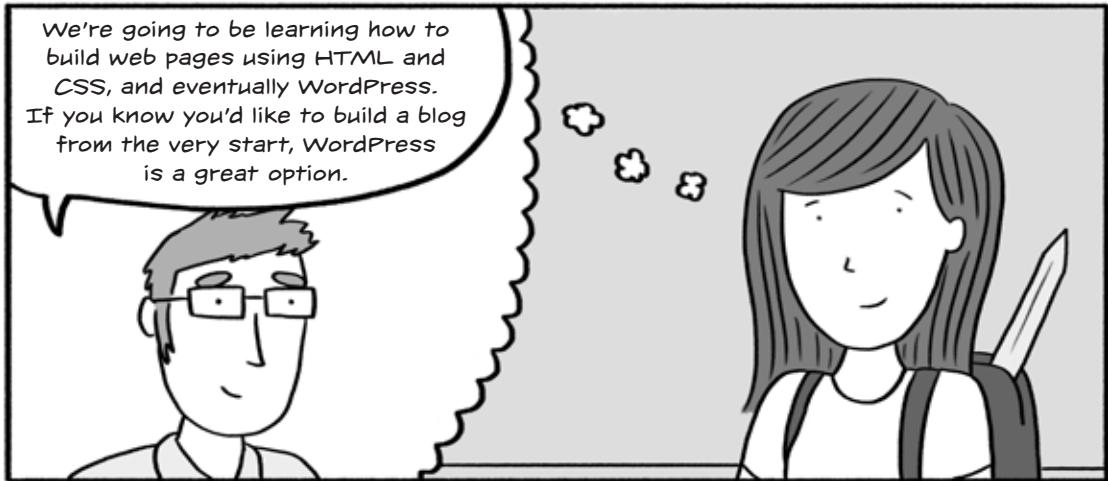


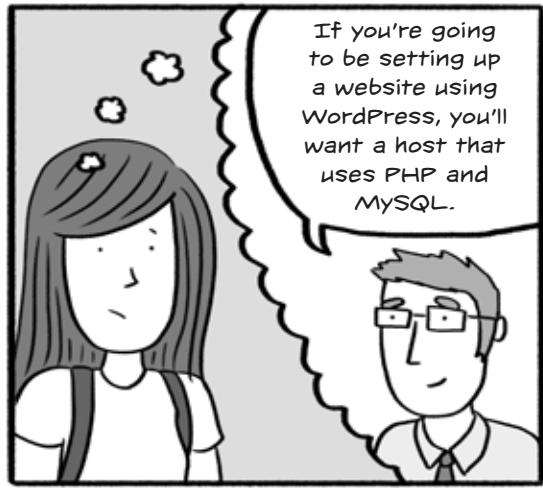
Okay, Tofu, we're not out of this yet. We have our web pages built and organized, but we'll need to register a domain and put everything together.



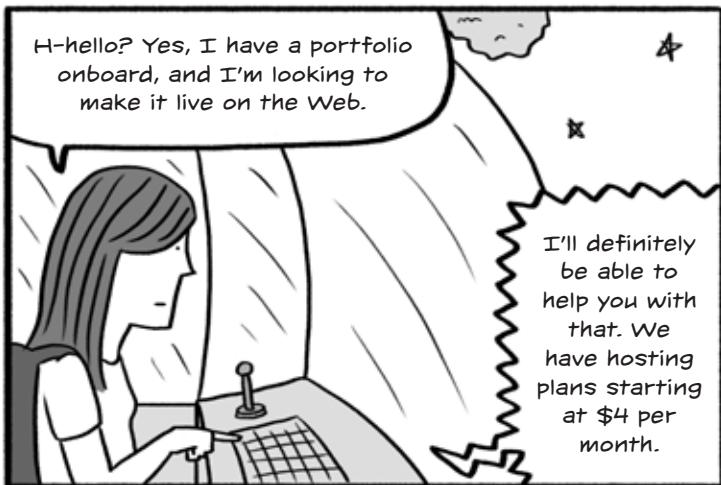








Kim's Portfolio Finds a Home



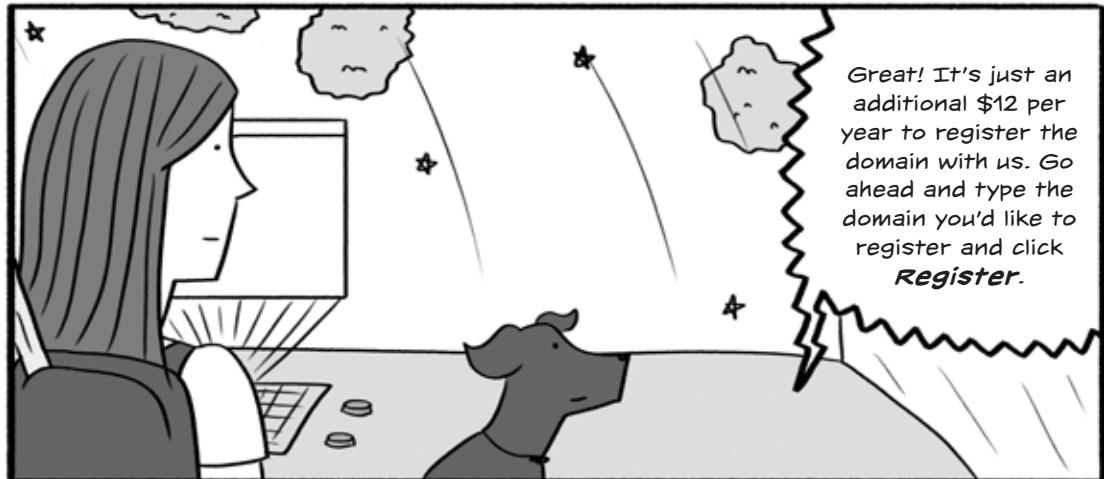
Domain name, domain name. Right. That's the address for the website.



No. I'd like to register one, please.



Great! It's just an additional \$12 per year to register the domain with us. Go ahead and type the domain you'd like to register and click **Register**.

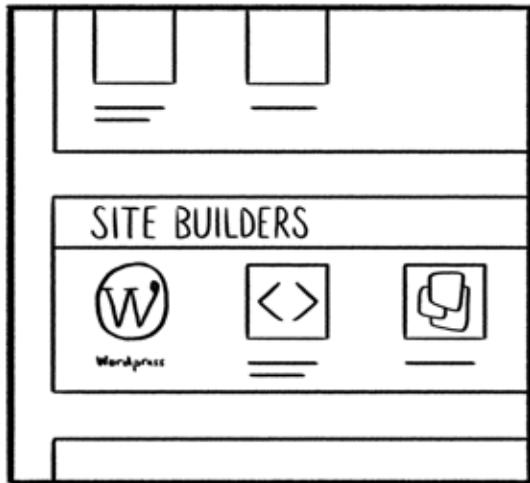


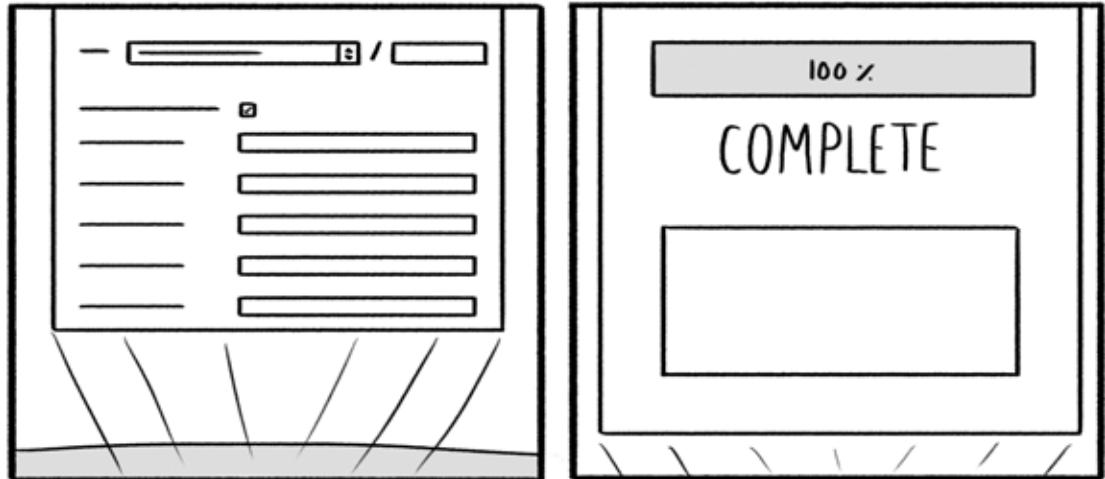
This is just a test domain. I may want to register another one later and set up a new site.

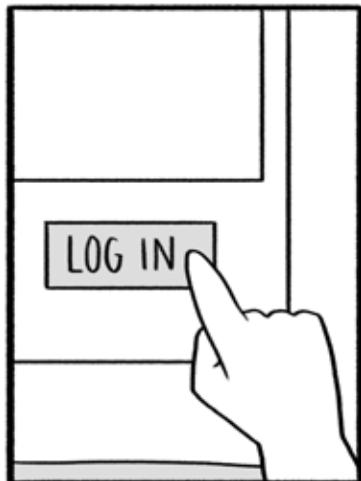


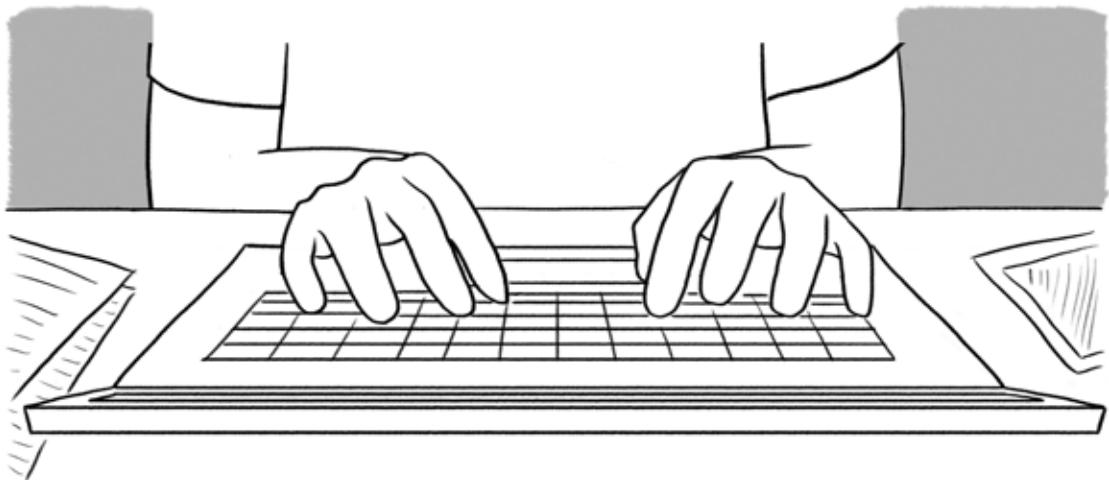
That's fine. Your hosting plan supports additional domains. Whenever you're ready, you can register a new one for \$12 and add it to your existing hosting plan. Now that you've registered and submitted payment, give us some time to set up your plan. Then I'll give you the FTP address ftp.tofuinspace.com, which you'll use for uploading your files.



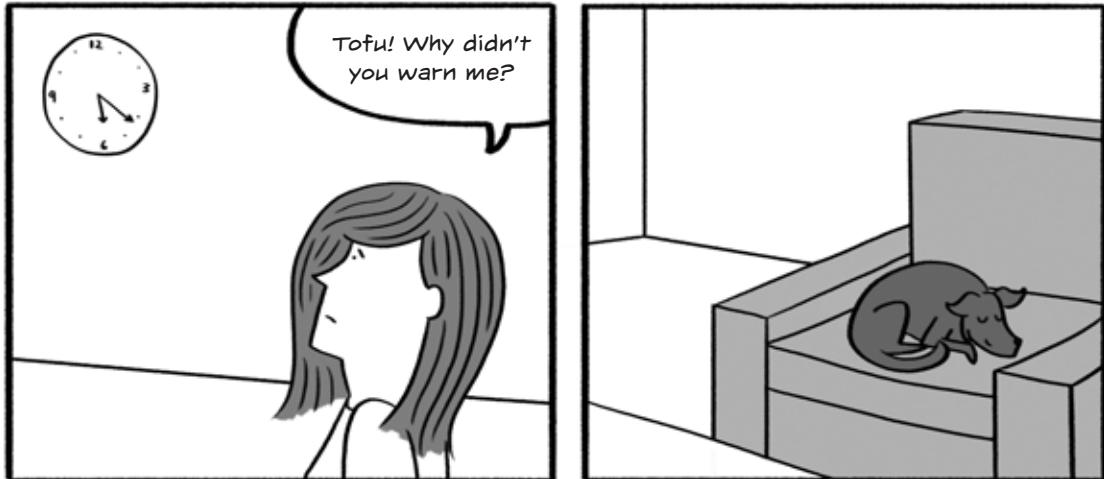


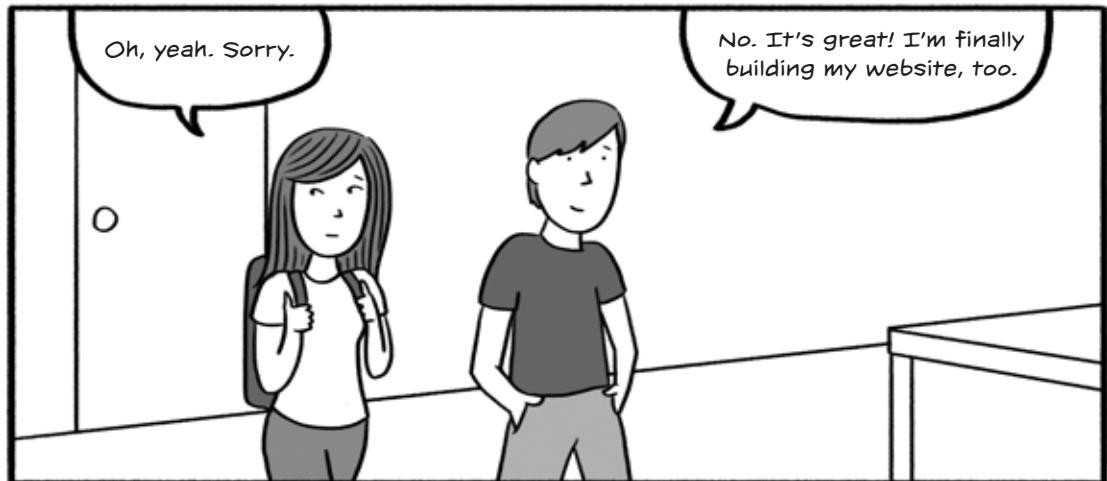
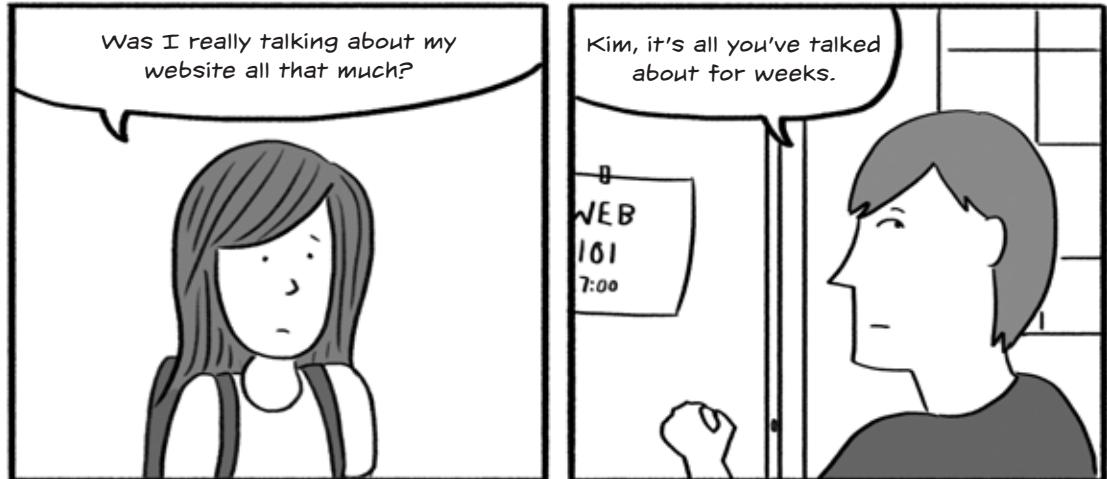


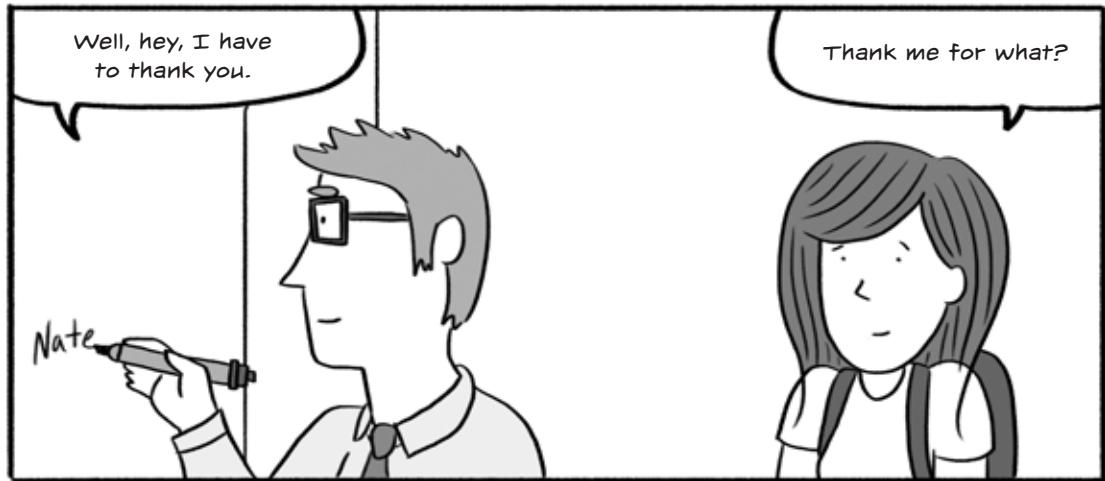




A Network of Friends







So You're Ready to Set Up Your Website

Building your website starts with a name. Before you can set up a host (where the files for your website will be stored), you need to register a domain name. The *domain* is the address that others will use to find your site online.

Registrars are companies that allow you to claim your desired domain. There are several thousand registrars online. You can register common top-level domains—like *.com*, *.org*, and *.net*—with most registrars. Visit a site like GoDaddy, BlueHost, or HostGator to get started (see Figure 6-1). You'll be able to check whether your domain name is available, and if it is, you can pay a fee to claim it. Think of this fee as a kind of rental. A domain is registered on a recurring basis, so you may choose to register a domain for a year or longer depending on your preference. You will need to pay the rental fee at the end of this time period to *renew* your domain.

There's only one name for each top-level domain available. So, for example, if you're trying to register *kimswebsite.com* and it's taken, you might check to see if *kimswebsite.co* or *kimswebsite.org* is available instead. You may need to get creative!

NOTE *When your registration term ends, your registered domain goes back to the available domain pool and anyone can register it. If you want to ensure that your domain is never taken from you, be sure to stay on top of renewing your registration. Many registrars offer autorenewal.*

Wondering which kind of domain to register? Different groups tend to use different domains (though there aren't many hard-and-fast rules). The domain *.org* is often used by organizations and nonprofits, *.com* is used by companies, and *.net* (short for *network*) is used by lots of different types of groups. There are even reserved top-level domains for special purposes, such as *.edu* for schools, *.mil* for the military, and *.gov* for governments. Various countries also have their own unique top-level domains, and you can often register them even if you don't live there. For example, *.co* (Columbia), *.tv* (Tuvalu), and *.io* (British Indian Ocean Territory) are all domains that were originally available for a specific country but have been co-opted for use by companies wanting a cool-sounding domain name. These unique top-level domains often require you to work with a particular registrar, and may be more expensive than a more common domain name.

You may decide to register a domain even before you have a hosting plan so that no one else can register your awesome domain name. Remember that after you've registered a domain, it's *all yours*. This means you can take the domain you've registered and transfer it to another host should you wish.

Registering a domain is generally inexpensive. But owning the domain alone isn't enough to have a website. You'll also need to set up a host—a company that serves your website to your visitors. Hosts and domains are independent of each other, but you can often set them up using the same company to save some time and money.

GoDaddy

Economy	Best Value	Ultimate
\$3.49/month \$6.99 Save 50%	\$4.49/month \$8.99 Save 50%	\$7.49/month \$14.99 Save 50%
Add to Cart	Add to Cart	Add to Cart
12 months \$3.49/mo On Sale	12 months \$4.49/mo On Sale	12 months \$7.49/mo On Sale
Free Domain Restrictions apply	Free Domain Restrictions apply	Free Domain Restrictions apply
1 Website	Unlimited Websites	Unlimited Websites

HostGator » Web Hosting

Get Started with HostGator Web Hosting Today!

Hatching Plan	Baby Plan	Business Plan
20% OFF!	20% OFF!	20% OFF!
<ul style="list-style-type: none"> Single Domain UNLIMITED Disk Space UNLIMITED Bandwidth Shared SSL Certificate 	<ul style="list-style-type: none"> UNLIMITED Domains UNLIMITED Disk Space UNLIMITED Bandwidth Shared SSL Certificate 	<ul style="list-style-type: none"> UNLIMITED Domains UNLIMITED Disk Space UNLIMITED Bandwidth FREE Private SSL & IP FREE Toll Free Number
Starting at \$3.96/mo* <input type="button" value="Compare All Hosting Plans"/>	Starting at \$6.36/mo* <input type="button" value="Compare All Hosting Plans"/>	Starting at \$10.36/mo* <input type="button" value="Compare All Hosting Plans"/>
<input type="button" value="Order Now"/>	<input type="button" value="Order Now"/>	<input type="button" value="Order Now"/>

*Price reflects 20% off first invoice

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<input type="button" value="get started"/>	<input type="button" value="go pro"/>

Figure 6-1: A comparison of hosting plans offered by GoDaddy (top), HostGator (middle), and BlueHost (bottom)

Setting Up Hosting: A Home Online

Picking a host can seem daunting at first because there are so many options available and the choices can be overwhelming. Don't worry! It's really hard to go wrong. And you can always change your host if you are unhappy with it. Start by thinking about what you want. Do you want WordPress? Pick a host with one-click WordPress installs. Or do you want just a basic HTML site to start?

Here are some questions for you to consider when shopping for hosting:

How many domains does your account support?

For each website, you'll need a separate domain. You'll need more than one domain if you are setting up several businesses, or if you want one site for your business and another for a personal website or blog.

How much storage is available?

This is mainly an issue of how many files you'll store online. If you are building a portfolio and storing a lot of high-quality images or videos, then you'll want to find a host that provides a reasonable amount of space. Many hosts now offer unlimited storage, so if you're concerned about space, look for a host that isn't limited.

What is the bandwidth limit?

Bandwidth (sometimes called *transfer*) refers to the amount of information that can be sent from your host to your audience per month. If you have a lot of visitors and they are accessing large files, then more bandwidth is used. Many shared hosting plans have unlimited bandwidth options, so look for those if you have concerns.

Is email hosting included?

While we won't be covering email in this book, most web hosts offer email hosting along with their regular hosting packages. Don't assume it always comes with your hosting packages, though; it may cost extra.

What kind of support is included?

Is there phone support available should you need to call the host? Does the host have an easy-to-access online chat service or customer support email? Customer service is often one of the major factors that sets hosting companies apart.

Once you've found a host that offers you what you need, the safe bet is to choose the plan that best fits your budget. It's not difficult to upgrade to a more expensive plan if you need to later. More expensive hosting packages may make sense if you have a particular goal in mind, like hosting two separate domains. For example, you may register one domain for a personal site and another domain for an unrelated business. Many hosting plans offer free addon domains with certain plans, as shown in Figure 6-2. This means you have one hosting plan fee but multiple domains pointing to different folders on the server.

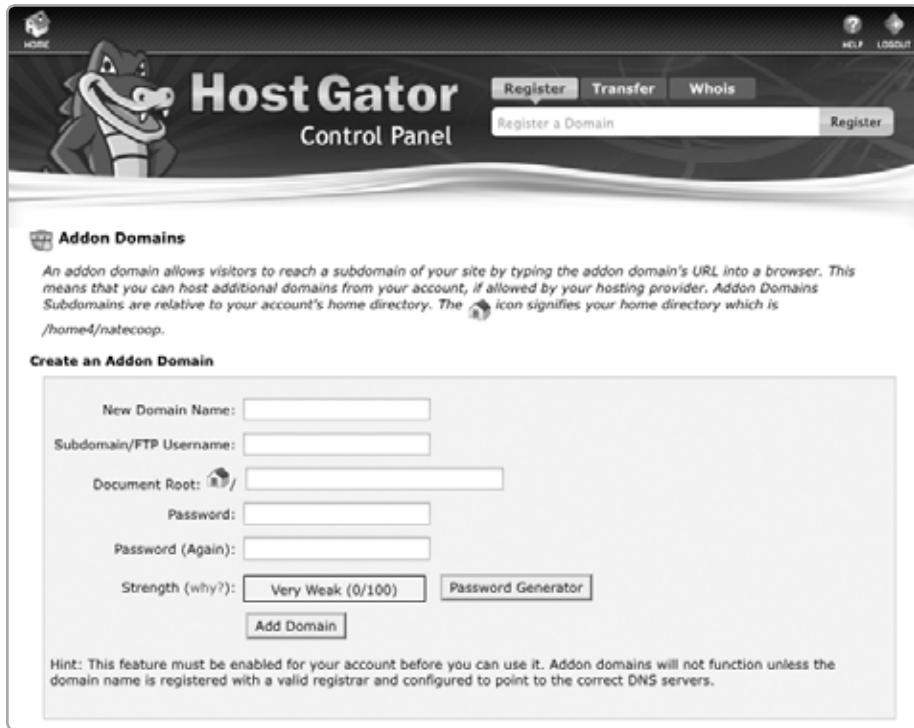


Figure 6-2: HostGator has a plan for so-called *addon domains*. You can attach a separate domain to the same hosting plan without having to set up another hosting plan.

Getting a Basic HTML and CSS Site Up and Running

Once you've decided on your plan and set up your domain and hosting, you should be given some information on how to log in. Your host may send this to you in an email. With this kind of hosting, you'll never actually see the computers that act as servers; you'll just work on them remotely using FTP or an *administrative panel* that you'll log into using a browser.

Follow the steps the host provides to log into your account. What you'll see now is an administrative panel. cPanel (shown in Figure 6-3) and Plesk are common examples of administrative panels.

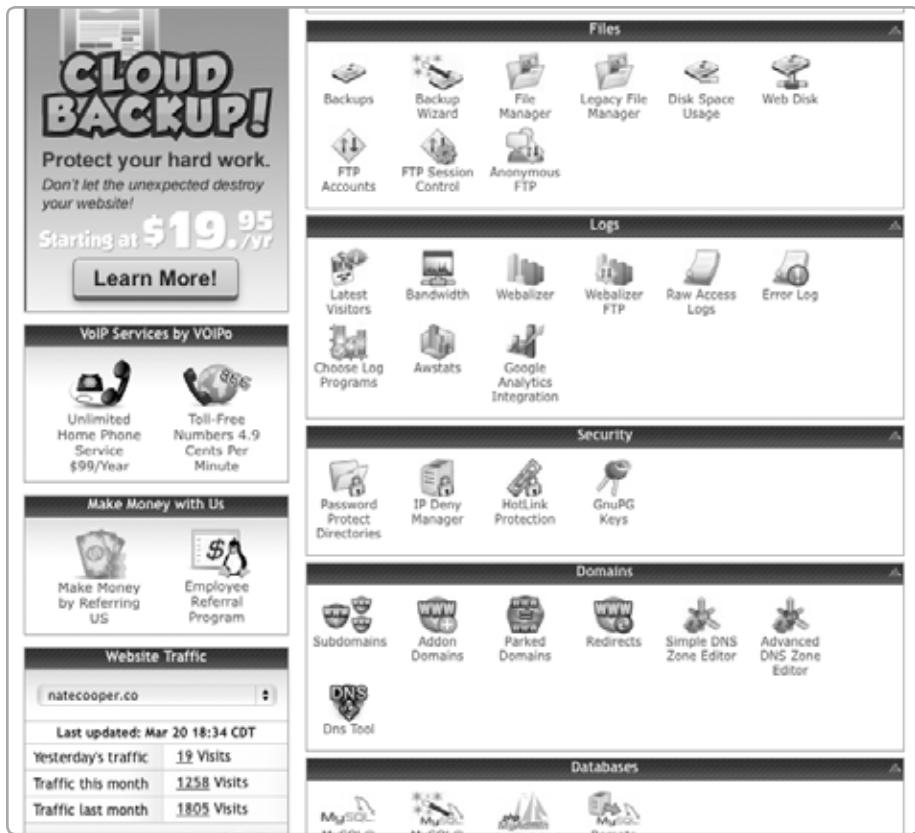


Figure 6-3: A cPanel screen on HostGator

Your host should also provide you with an FTP address, username, and password. (You may find this information in your administrative panel as well.) You'll need that FTP information to add files you create on your computer to the remote server.

Remember from Chapter 1 that you need two programs to build web pages by hand: a code editor and an FTP client. If you already followed the recommendation to download FileZilla (<https://filezilla-project.org/>), you can enter the FTP address, username, and password (provided by your host) to access your folder on your hosting plan, as shown in Figure 6-4.

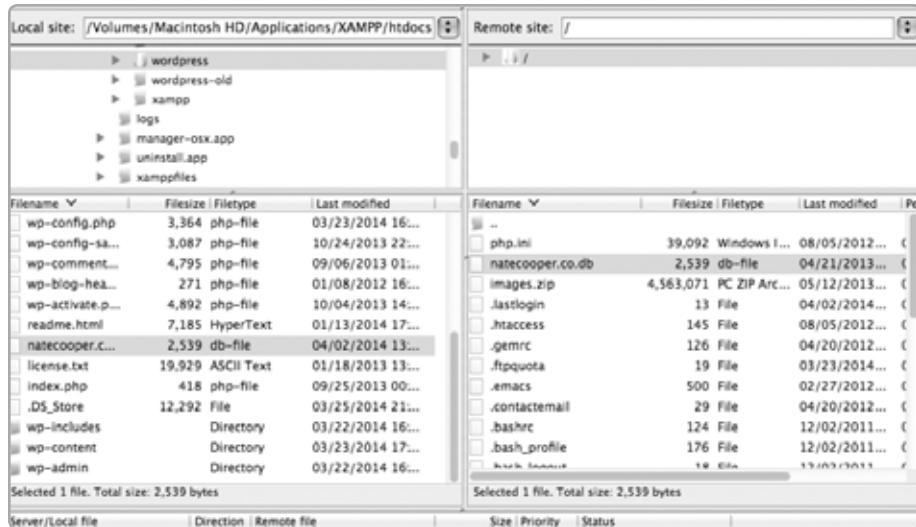


Figure 6-4: FileZilla shows both your local computer and the remote host via FTP so that you can easily keep track of your files in both locations. Just drag files from your local computer to the remote side to upload them.

Because you always work off of your computer, it's a good habit to create a folder for each of your sites somewhere on your hard drive. This folder should look exactly like the live version of your site. The folder acts as a backup and allows you to test changes you want to make *locally*; that is, before taking them live to your website. Once you are sure the changes you've made are working, you are ready to transfer them to your web host using FileZilla. Open FileZilla; type the host, username, and password from your host; and click **Quick-connect**. Once connected, you should see a local view (your computer) on the left side of the window and a remote site view (your web host) on the right side.

On the local side, you'll want to navigate to the folder where you keep the HTML and CSS files you created. On the remote side, you'll want to navigate to the folder where you'd like the files to go on your website. Remember, there is always a *root* of the site, from which you can create folders to branch off, just as Kim did to build her portfolio. When you are sure the files are in the location you're looking for, you can drag and drop them from the left (local) to the right (remote) side. This will copy the files to your remote host and keep a local copy for you.

The root of your site—where the live web pages live—is usually in a folder called *www* or *public_html*. Check with your host if you're unsure which folder is the root. If you're using WordPress to build your site, you don't really need a local copy. You can just create the site live on the host.

Setting Up WordPress

As you know from Chapter 4, WordPress is a content management system that runs on your host and allows you to create pages, post blog entries, and upload media (photos, videos, and so on) through the web browser. A content management system has lots of tools to . . . well . . . help manage your content. WordPress makes it easier for you to organize your site and make it look nice without having to code or manage your files using an FTP program.

Many hosts these days support WordPress natively and make setup a snap. WordPress itself is free, but you'll still need to pay for hosting to use it to manage your content. Your host stores the text, photos, and other site information, and then serves it to your visitors.

A Note on Buying WordPress Hosts

If you intend to set up your own hosting plan using WordPress to manage your content, look for a host that has *one-click install* to set up WordPress on your site (see Figure 6-5). One-click install scripts make setting up WordPress a cinch, because it means WordPress lives in a single folder on your host, like <your-site>.com/wordpress or <your-site>.com/blog. When you run the install script, it asks you where you'd like WordPress to live (see Figure 6-6). You can also point it to the root of your site so that the address is just <your-site>.com. The one-click install does all the heavy lifting by creating the WordPress database, installing a fresh copy of WordPress, and connecting it to the database for you automatically. If your host doesn't have a one-click install script, there are detailed instructions on how to set up WordPress in the online documentation: http://codex.wordpress.org/Installing_WordPress/.

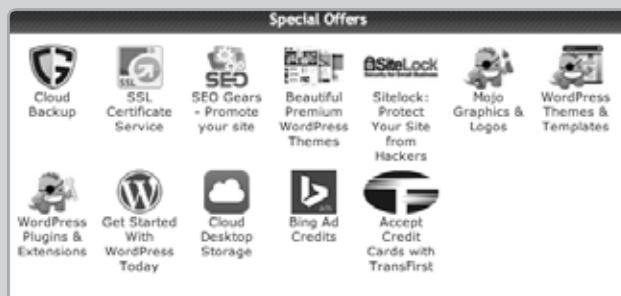


Figure 6-5: A cPanel with a WordPress installer script

Install WordPress
Application URL (where you will find the app in your browser):
http:// /
Enable Auto Upgrades:
Admin Email:
Blog Title:
Admin User:
First Name:
Last Name:

Figure 6-6: When installing WordPress on a live server, you'll be asked where you'd like to install it.

Conclusion

And so we come to the end of our journey. You've learned a lot! You tackled the ancient code of HTML and the slick style of CSS. You defeated 404 dragons and learned the proper ways of the path. You got a tour of WordPress City and saw how modern content management works. You even tried on the best fashions with theme selection. Now you're ready to build your own website.

But really, this isn't the end of learning—it's the beginning. You've gotten a good start, but it's up to you to actually build something cool. It doesn't mean there won't be bumps on the road. Whenever you start something new, it's never as good as you imagined, but the secret is to keep at it. Try! Don't give up! If you get lost, come back to this book and review a section to get back on your path. The Guru, Kim, and Kim's friends will all be here if you need help, but from now on the adventure is yours!

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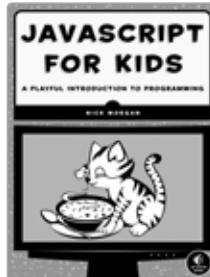
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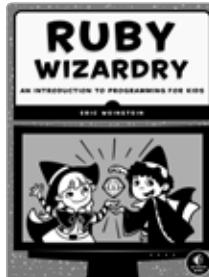
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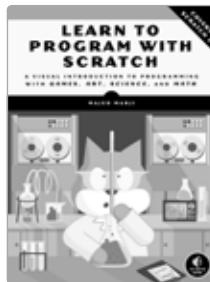
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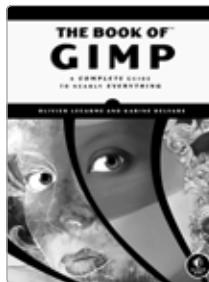
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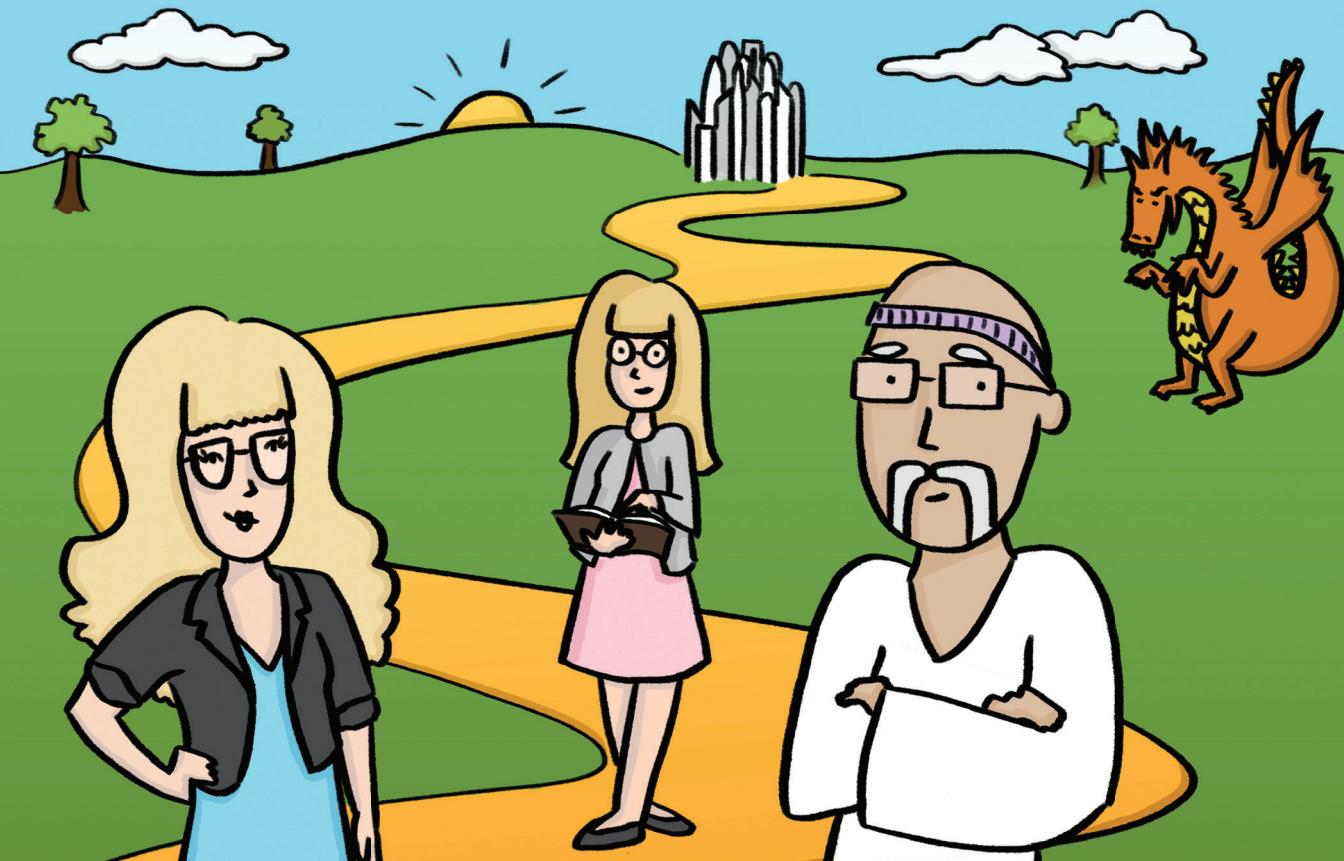
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