# 1 getting to know HTML

# The Language of the Web



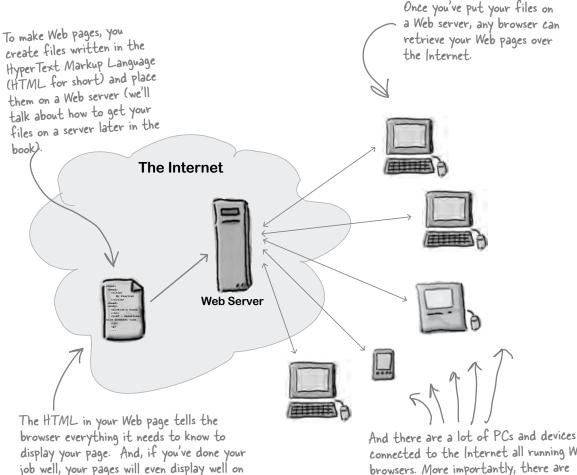
# The only thing that is standing between you and getting yourself on the Web is learning to speak the lingo:

HyperText Markup Language, or HTML for short. So, get ready for some language lessons. After this chapter, not only are you going to understand some basic **elements** of HTML, but you'll also be able to speak HTML with a little **style**. Heck, by the end of this book you'll be talking HTML like you grew up in Webville.

# The Web <del>Video</del> killed the radio star

Want to get an idea out there? Sell something? Just need a creative outlet? Turn to the Web – we don't need to tell you it has become the universal form of communication. Even better, it's a form of communication **YOU** can participate in.

But, if you really want to use the Web effectively, you've got to know a few things about **HTML**, not to mention how the Web works. Let's take a look from 30,000 feet:



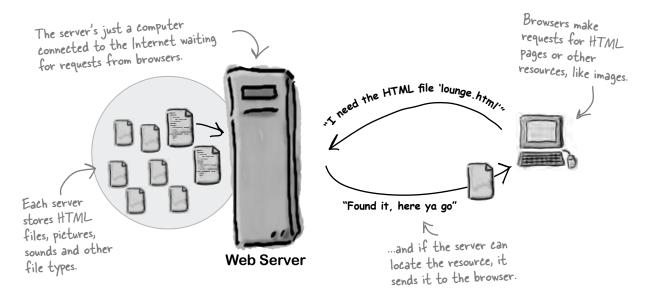
connected to the Internet all running Web browsers. More importantly, there are friends, family, fans, and potential customers using those PCs!

PDAs and mobile devices, and work with

speech browsers and screen magnifiers for

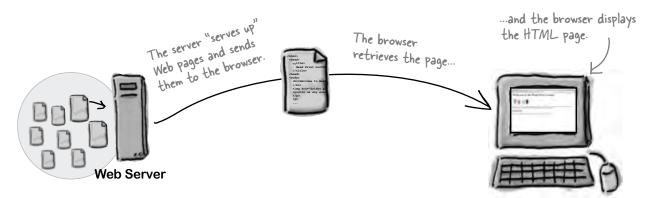
# What does the Web <u>server</u> do?

Web servers have a full time job on the Internet, tirelessly waiting for requests from Web browsers. What kinds of requests? Requests for Web pages, images, sounds, or maybe even a movie. When a server gets a request for any of these resources, the server finds the resource, and then sends it back to the browser.



# What does the Web <u>browser</u> do?

You already know how a browser works: you're surfing around the Web and you click on a link to visit a page. That click causes your browser to request an HTML page from a Web server, retrieve it, and display the page in your browser window.



But, how does the browser know how to display a page? That's where HTML comes in. HTML tells the browser all about the content and structure of the page. Let's see how that works...

# What you write (the HTML)...

So, you know HTML is the key to getting a browser to display your pages, but, what exactly does HTML look like? And, what does it do?

Let's have a look at a little HTML... imagine you're going to create a Web page to advertise the *Head First Lounge*, a local hangout with some good tunes, refreshing elixirs, and wireless access. Here's what you'd write in HTML:

```
<html>
  <head>
     <title>Head First Lounge</title
  </head>
  <body>
     <h1>Welcome to the Head First Lounge</h1
    <img src="drinks.gif">
     Join us any evening for refreshing elixirs,
        conversation and maybe a game or
        two of <em>Dance Dance Revolution</em>.
        Wireless access is always provided;
        BYOWS (Bring your own web server).
     <h2>Directions</h2> (F)
     You'll find us right in the center of
   (\mathbf{G})
        downtown Webville. Come join us!
     0
  </body>
                                                            We don't expect you to know
</html>
                                                            HTML, yet.
                                                         At this point you should just be getting
                                                        a feel for what HTML looks like; we're
                                                going to cover everything in detail in a bit. For
                                             now, study the HTML and see how it gets represented
                                             in the browser on the next page. Be sure to pay careful
                                             attention to each letter annotation and how and where
                                             it is displayed in the browser.
```

# What the browser creates...

When the browser reads your HTML, it interprets all the *tags* that surround your text. Tags are just words or characters in angle brackets, like **<head>**, , **<h1>**, and so on. The tags tell the browser about the *structure and meaning* of your text. So rather than just giving the browser a bunch of text, with HTML you can use tags to tell the browser what text is in a heading, what text is a paragraph, what text needs to be emphasized, or even where images need to be placed.



Q: So HTML is just a bunch of tags that I put around my text?

A: For starters. Remember that HTML stands for HyperText *Markup* Language, so HTML gives you a way to "mark up" your text with *tags* that tell the browser how your text is structured. But there is also the *HyperText* aspect of HTML, which we'll talk about a little later in the book.

Q: How does the browser decide how to display the HTML?

A: HTML tells your browser about the structure of your document: where the headings are, where the paragraphs are, what text needs emphasis, and so on. Given this information, browsers have builtin default rules for how to display each of these elements.

But, you don't have to settle for the default settings. You can add your own style and formatting rules with CSS that determine font, colors, size, and a lot of other characteristics of your page. We'll get back to CSS later in the chapter.

Q: The HTML for the Head First Lounge has all kinds of indentation and spacing, and yet I don't see that when it is displayed in the browser. How come?

A: Correct, and good catch. Browsers ignore tabs, returns, and most spaces in HTML documents. Instead, they rely on your markup to determine where line and

## there are no Dumb Questions

paragraph breaks occur.

So why did we insert our own formatting if the browser is just going to ignore it? To help us more easily read the document when we're editing the HTML. As your HTML documents become more complicated, you'll find a few spaces, returns, and tabs here and there really help to improve the readability of the HTML.

Q: So there are two levels of headings, <h1> and a subheading <h2>?

A: Actually there are six, <h1> through <h6>, which the browser typically displays in successively smaller font sizes. Unless you are creating a complex and large document, you typically won't use headings beyond <h3>.

Q: Why do I need the <html> tag? Isn't it obvious this is a HTML document?

A: The <html> tag tells the browser your document is actually HTML. While some browsers will forgive you if you omit it, some won't, and as we move toward "industrial strength HTML" later in the book, you'll see it is quite important to include this tag.

Q: What makes a file an HTML file?

A: Basically an HTML file is a simple text file. Unlike a word processing file, there is no special formatting embedded in it. By convention we add a ".html" or ".htm" (on systems that only support three letter file extensions) to the end of the file name to give the operating system a better idea of what the file is. But, as you've seen, what really matters is what we put inside the file.

Q: Markup seems silly. What-yousee-is-what-you-get applications have been around since, what, the '70s? Why isn't the Web based on a format like Microsoft Word or a similar application?

A: The Web is created out of text files without any special formatting characters. This enables any browser in any part of the world to retrieve a Web page and understand its contents. You'll see that on the Web, in many ways HTML is more powerful than using a proprietary document format.

Q: Is there any way to put comments to myself in HTML?

A: Yes, if you place your comments in between <!-- and --> the browser will totally ignore them. Say you wanted to write a comment "Here's the beginning of the lounge content". You'd do that like this:

# <!-- Here's the beginning of the lounge content -->

Notice that you can put comments on multiple lines. Keep in mind anything you put between the "<!--" and the "-->", even HTML, will be ignored by the browser.

Sharpen your pencil			
	You're closer to learning HTML than you think		
		Lounge again. Take a look at the tags and see rowser about the content. Write your answers ady done the first couple for you.	
<html></html>		Tells the browser this is the start of HTML	
<head></head>		Starts the page "head" (more about this later)	
	d First Lounge		
<body></body>			
- <h1>Welcome</h1>	e to the Head First Lounge <td>1&gt;</td>	1>	
<img src="d&lt;/td&gt;&lt;td&gt;drinks.gif"/>			
Join us	any evening for refreshing e	lixirs,	
conversa	ation and maybe a game or		
two of .	<em>Dance Dance Revolution<td>m&gt;.</td></em>	m>.	
Wireless	s access is always provided;		
BYOWS (1	Bring your own web server).		
<h2>Direct:</h2>	ions		
You'll find us right in the center of			
downtown	n Webville. Come join us!		

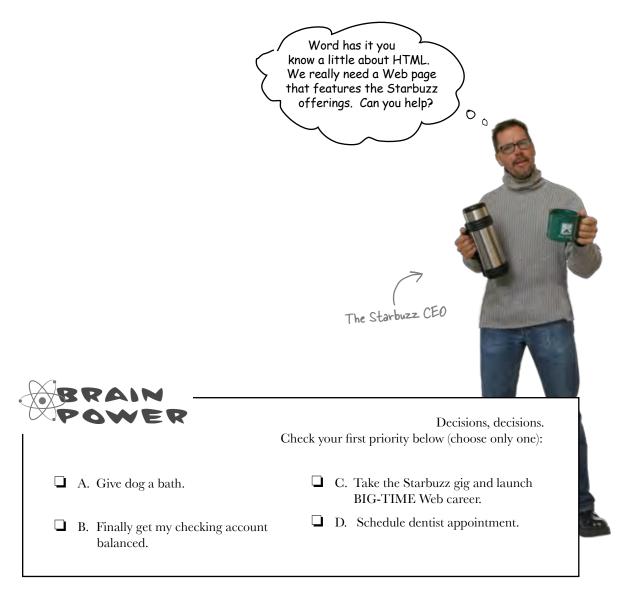
```
Sharpen your pencil
        answers
                                                            Tells the browser this is the start of HTML.
    <html>
                                                            Starts the page "head".
      <head>
                                                            Gives the page a title.
         <title>Head First Lounge</title>
                                                            End of the header.
      </head>
                                                           Start of the body of page.
      <body>
                                                           Tells browser that "Welcome to ... " is a heading.
         <h1>Welcome to the Head First Lounge</h1>
                                                           Places the image "drinks.gif" here.
         <img src="drinks.gif">
                                                            Start of a paragraph.
         Join us any evening for refreshing elixirs,
            conversation and maybe a game or
            two of <em>Dance Dance Revolution</em>.
            Wireless access is always provided;
            BYOWS (Bring your own web server).
                                                            End of paragraph.
         Tells the browser that "Directions" is a subheading.
         <h2>Directions</h2>
                                                            Start of another paragraph.
         You'll find us right in the center of
            downtown Webville. Come join us!
                                                            End of paragraph.
         </body>
                                                            End of the body.
    </html>
                                                          Tells the browser this is the end of the HTML.
```

# Your big break at Starbuzz Coffee

Starbuzz Coffee has made a name for itself as the fastest growing coffee shop around. If you've seen one on your local corner, look across the street – you'll see another one.

In fact, they've grown so quickly, they haven't even managed to put up a web page, yet... and therein lies your big break: By chance, while buying your Starbuzz Chai Tea, you run into the Starbuzz CEO...







\* If by chance you chose options A, B, or D on the previous page, we recommend you donate this book to a good library, use it as kindling this winter, or what the hell, go ahead and sell it on Amazon and make some cash.

Chapter 1.

You'll find our answers at the end of

## Creating the Starbuzz Web page

Of course, the only problem with all this is that you haven't actually created any Web pages, yet. But, that's why you decided to dive head first into HTML, right?

No worries, here's what you're going to do on the next few pages:



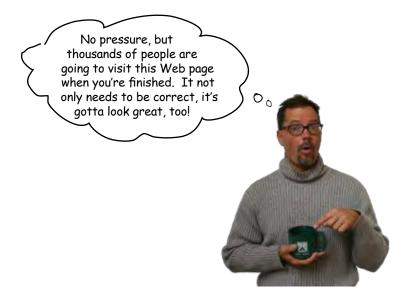
**1** Create an HTML file using your favorite text editor.

Type in the menu the Starbuzz CEO wrote 2 on the napkin.



Save the file as "index.html".

**4** Open the file "index.html" in your favorite browser, step back, and watch the magic happen.



# Creating an HTML file (Mac)

All HTML files are text files. To create a text file you need an application that allows you to create plain text without throwing in a lot of fancy formatting and special characters. You just need plain, pure text.

We'll use TextEdit on the Mac in this book; however, if you prefer another text editor, that should work fine as well. And, if you're running Windows, you'll want to skip ahead a couple of pages to the Windows instructions.



## Step one:

## Navigate to your Applications folder

The TextEdit application is in the Applications folder. The easiest way to get there is to choose "New Finder Window" from the Finder's File menu and then look for the Application directly in your shortcuts. When you've found it, click on Applications.

## Step two:

## Locate and run TextEdit

You'll probably have lots of applications listed in your applications folder, so scroll down until you see TextEdit. To run the application, double click on the TextEdit icon.



Your Finder shortcuts.

## Step three (optional):

## Keep TextEdit in your Dock

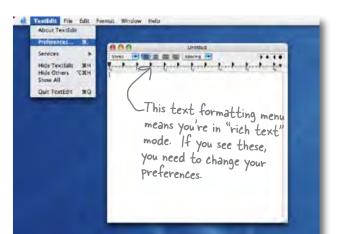
If you want to make your life easier, click and hold on the TextEdit icon in the Dock (this icon appears once the application is running). When it displays a popup menu, choose "Keep in Dock." That way, the TextEdit icon will always appear in your Dock and you won't have to hunt it down in the Applications folder every time you need to use it.



## Step four:

### Change your TextEdit Preferences

By default, TextEdit is in "rich text" mode, which means it will add its own formatting and special characters to your file when you save it – not what you want. So, you'll need to change your TextEdit Preferences so that TextEdit saves your work as a pure text file. To do this, first choose the "Preferences" menu item from the TextEdit menu.



## **Step five:**

#### Set Preferences for Plain text

Once you see the Preferences dialog box, there are three things you need to do.

First, choose "Plain text" as the default editor mode in the New Document tab.

Second, in the "Open and Save" tab, make sure that the "Add .txt extension to plain text files" is **un**checked.

Last, make sure "Ignore rich text commands in HTML files" is \_\_\_\_\_ checked.

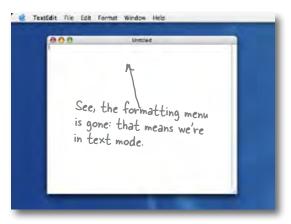
That's it; to close the dialog box click on the red button in the top left corner.

## Step six:

### Quit and restart

Now quit out of TextEdit by choosing Quit from the TextEdit menu, and then restart the application. This time, you'll see a window with no fancy text formatting menus at the top of the window. You're now ready to create some HTML.





# Creating an HTML file (Windows)

If you're reading this page you must be a Windows XP user. If not, you might want to skip a couple of pages ahead. Or, if you just want to sit in the back and not ask questions, we're okay with that too.

To create HTML files in XP we're going to use Notepad – it ships with every copy of Windows, the price is right, and it's easy to use. If you've got your own favorite editor that runs on XP, that's fine too; just make sure you can create a plain text file with an ".html" extension.

Assuming you're using Notepad, here's how you're going to create your first HTML file.

## Step one:

## Open the Start menu and navigate to Notepad

You'll find the Notepad application in Accessories. The easiest way to get there is to click on the "Start" menu, then on "All Programs", then "Accessories". You'll see Notepad listed there.

> headfirst Internet ) My Documents et Explore My Recent Documents E-mail Set Program Access and Defaults Expense Windows Catalog MON. Windows Update Accessibility Workhouse Marka Pla Communications m Games Entertainment Windows Messena Startup System Tools m A Internet Explorer Address Book Tour Windows XP MSN 1 . Calculator ČŤ. Outlook Express Files and Settings Command Promp Remote Assistance Notepad Windows Media Player V Paint 8 Windows Messenger 😢 Program Compatibility Wizard 2 All Programs Windows Movie Maker Synchronize Recycle Din Tour Windows XP 🖉 Log Off 🛛 🔘 Turn Off Cones Windows Explorer 🛃 start A WordPad

Or another version of Windows.

If you're using another version of Windows you'll find Notepad there as well.

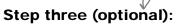
## Step two:

## Open Notepad

Once you've located Notepad in the Accessories folder, go ahead and click on it. You'll see a blank window ready for you to start typing HTML.



#### But recommended.



Don't hide extensions of well known file types.

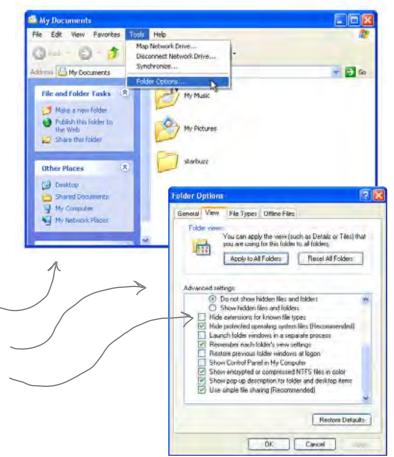
By default XP's File Explorer hides the file extensions of well known file types. For example, a file named, "Irule.html" will be shown in the Explorer as "Irule" without its ".html" extension.

It's much less confusing if XP shows you these extensions, so let's change your folder options so you can see the file extensions.

First, in any Explorer window select "Folder Options..." from the Tools menu.

Next, in the "View" tab, under "Advanced settings", scroll down until you see "Hide extensions for known file types" and *uncheck* this option.

That's it. Click on the OK button to save the preference and you'll now see the file extensions in the Explorer.



## there are no Dumb Questions

Q: Why am I using a simple text editor? Aren't there powerful tools like Dreamweaver, FrontPage and GoLive for creating Web pages?

A: You're reading this book because you want to understand the true technologies used for Web pages, right? Now those are all great tools, but they do a lot of the work for you, and until you are a master of HTML and CSS you want to learn this stuff without a big tool getting in your way.

Once you're a master, however, these tools do provide some nice features like syntax checking and previews. At that point, when you view the "code" window, you'll understand everything in it, and you'll find that changes to the raw HTML and CSS are often a lot faster than going through a user interface. You'll also find that as standards change, these tools aren't always updated right away and may not support the most recent standards until their next release cycle. Since you'll know how to change the HTML and CSS without the tool, you'll be able to keep up with the latest and greatest all the time.

Q: I get the editor, but what browser am I supposed to be using? There are so many – Internet Explorer, Firefox, Opera, Safari – what's the deal? A: The simple answer: use whatever browser you like. HTML and CSS are industry standards, which means that all browsers try to support HTML and CSS in the same way (just make sure you are using the newest version of the browser for the best support).

The complex answer: in reality there are slight differences in the way browsers handle your pages. If you've got users who will be accessing your pages in a variety of browsers, then always test your web page in several different browsers. Some pages will look exactly the same; some won't. The more advanced you become with HTML and CSS, the more these slight differences may matter to you, and we'll get into some of these subtleties throughout the book.

If you're looking for a good browser, give Mozilla's Firefox a try; it has very good HTML and CSS support.

# Q: I'm creating these files on my own computer – how am I going to view these on the Web/Internet?

A: That's one great thing about HTML: you can create files and test them on your own computer and then later publish them on the Web. Right now we're going to worry about how to create the files and what goes in them. We'll come back to getting them on the Web a bit later.

getting to know html

# Meanwhile, back at Starbuzz Coffee...

Okay, now that you know the basics of creating a plain text file, you just need to get some content into your text editor, save it, and then load it into your browser.

Start by typing in the beverages straight from the CEO's napkin; these beverages are the content for your page. You'll be adding some HTML markup to give the content some structure in a bit, but for now, just get the basic content typed in. While you're at it, go ahead and add "Starbuzz Coffee Beverages" at the top of the file.

Mac

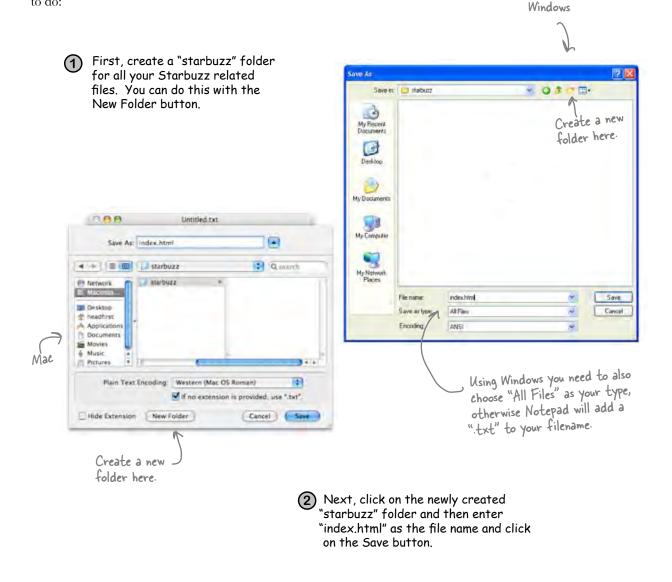
	Untitled Notepad	
	File Edit Format View Holp	
	Starbuzz Coffee Beverages	
	House Blend, \$1.49 A smooth, mild blend of coffees from Mexico,	Bolivia and Guatemala.
	Mocha Cafe Latte, \$2.35 Espresso, steamed milk and chocolate syrup.	
	Untitled.txt	
Storbuzz Coffee Be	verages	7
Cappuccino, \$1.09 Mixture of espre	\$2.35 milk and chocolule syrap. ssó. steamed milk and foam. vith black tea, spices, wilk and honey.	Windows



# Saving your work...

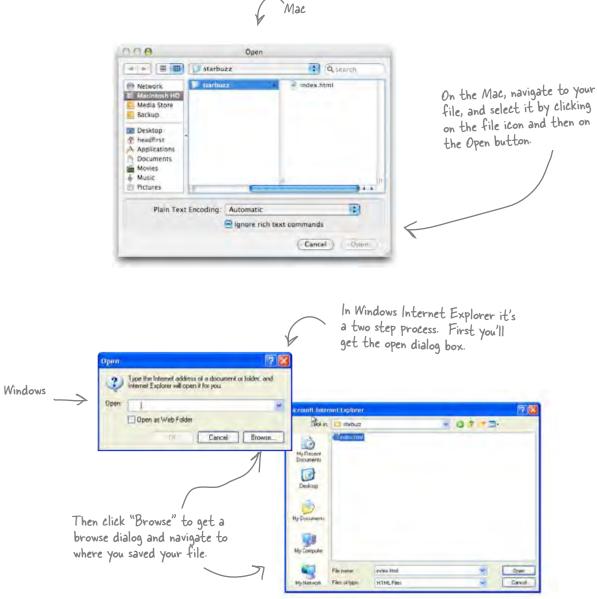
Once you've typed in the beverages from the CEO's napkin, you're going to save your work in a file called "index.html". Before you do that, you'll want to create a folder named "starbuzz" to hold the site's files.

To get this all started, choose "Save" from the File menu and you'll see a "Save As" dialog box. Then, here's what you need to do:



# Opening your Web page in a browser

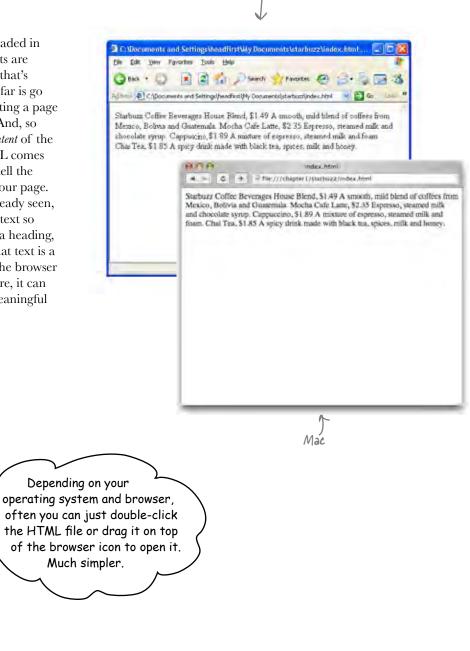
Are you ready to open your first Web page? Using your favorite browser, choose "Open File..." (or "Open..." using Windows XP and Internet Explorer) from the File menu and navigate to your "index.html" file. Select it and click "Open".



# Taking your page for a test drive...

Success! You've got the page loaded in the browser, although the results are a little... uh... unsatisfying. But that's just because all you've done so far is go through the mechanics of creating a page and viewing it in the browser. And, so far, you've only typed in the *content* of the Web page. That's where HTML comes in. HTML gives you a way to tell the browser about the *structure* of your page. What's structure? As you've already seen, it is a way of marking up your text so that the browser knows what's a heading, what text is in a paragraph, what text is a subheading, and so on. Once the browser knows a little about the structure, it can display your page in a more meaningful and readable manner.

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Windows



# Markup Magnets

So, let's add that structure...

Your job is to add structure to the text from the Starbuzz napkin. Use the fridge magnets at the bottom of the page to mark up the text so that you've indicated which parts are headings, subheadings and paragraph text. We've already done a few to get you started. You won't need all the magnets below to complete the job; some will be left over.



Use this magnet to start a Use this magnet to end a heading. heading.



this magnet Use to start a

subheading.

subheading.

Use this magnet magnet to to end a



-his

start a

paragraph

Use this magnet to end a paragraph.



# Congratulations, you've just written your first HTML!

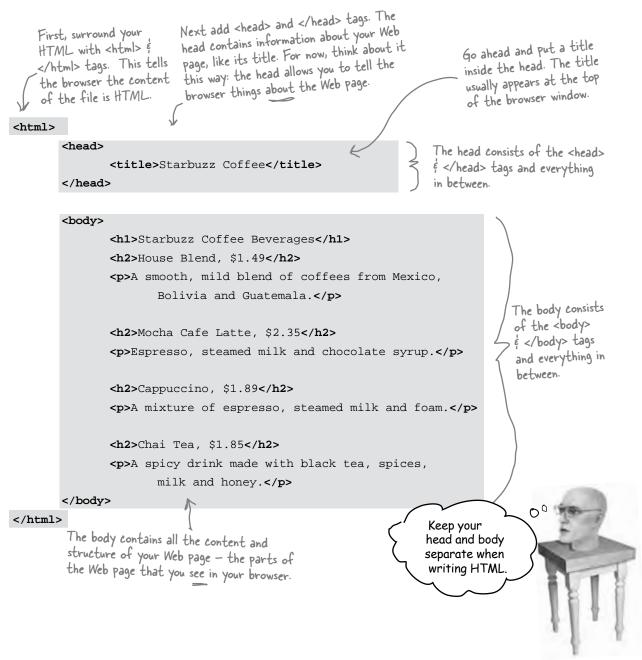
They might have looked like fridge magnets, but you were really marking up your text with HTML. Only, as you know, we usually refer to the magnets as *tags*.

Check out the markup below and compare it to your magnets on the previous page.

Use the <hl> and </hl> tags to mark headings. All the text in between is the actual content of the heading. <h1>Starbuzz Coffee Beverages</h1> <h2>House Blend, \$1.49</h2> The <h2> and </h2> tags go around a subheading. A smooth, mild blend of coffees from Mexico, Think of an <h2> heading Bolivia and Guatemala. as a subheading of an <hl> heading. <h2>Mocha Cafe Latte, \$2.35</h2> Espresso, steamed milk and chocolate syrup. The and tags go around a block of <h2>Cappuccino, \$1.89</h2> text that is a paragraph. A mixture of espresso, steamed milk and foam. That can be one or many sentences. <h2>Chai Tea, \$1.85</h2> A spicy drink made with black tea, spices, milk and honey. Notice that you don't have to put matching tags on the same line. You can put as much content as you like between them.

## Are we there yet?

You have an HTML file with markup – does that make a Web page? Almost. You've already seen the <html>, <head>, <title>, and <body> tags, and we just need to add those to make this a first class HTML page...



# Another test drive...

Go ahead and change your "index.html" file by adding in the <head>, </head>, <title>, </title>, <body> and </body> tags. Once you've done that, save your changes and reload the file into your browser.

> You can reload the index.html file by selecting the "Open File" menu item again, or by using your browser's reload button.

Notice that the title, which you specified in the <head> element, shows up here.

Now things look a bit better. The browser has interpreted your tags and created a display for the page that is not only more structured but also more readable. 

## Starbuzz Coffee Beverages

House Blend, \$1.49

AAA

A smooth, mild blend of coffees from Mexico, Bolivia and Guatemala.

Starbuzz Coffee

Mocha Cafe Latte, \$2.35

Espresso, steamed milk and chocolate syrup.

Cappuccino, \$1.89

A mixture of espresso, steareed milk and foam-

Chai Tea, \$1.85

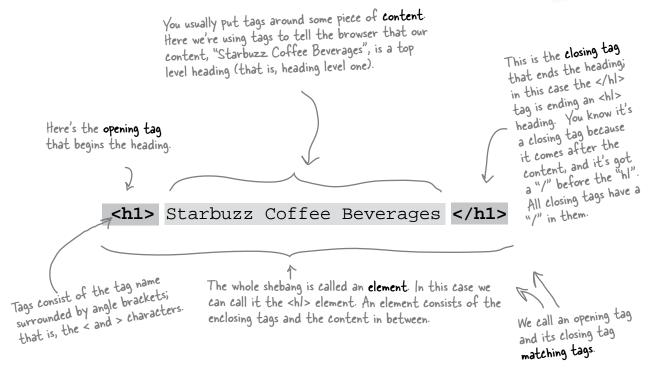
A spicy drink made with black tea, spices, milk and honey.



## Tags dissected...

Okay, you've seen a bit of markup, so let's zoom in and take a look at how tags really work...





To tell the browser about the structure of your page, use pairs of tags around your content.

## Remember,

Element = Opening Tag + Content + Closing Tag

Q: So matching tags don't have to be on the same line?

A: No; remember the browser doesn't really care about tabs, returns, and most spaces. So, your tags can start and end anywhere on the same line or they can start and end on different lines. Just make sure you start with an opening tag, like <h2>, and end with a closing tag, like </h2>.

Q: Why do the closing tags have that extra "/"?

A: That "/" in the closing tag is to help both you and the browser know where a particular piece of structured content ends. Otherwise, the closing tags would look just like the opening tags, right?

## there are no Dumb Questions

Q: I've noticed the HTML in some pages doesn't always match opening tags with closing tags.

A: Well, the tags are *supposed* to match. In general, browsers do a pretty good job of figuring out what you mean if you write incorrect HTML. But, as you're going to see, these days there are big benefits to writing totally correct HTML. If you're worried you'll never be able to write perfect HTML, don't be; there are plenty of tools to verify your code before you put it on a Web server so the whole world can see it. For now, just get in the habit of always matching your opening tags with closing tags.

Q: Well, what about that <img src="drinks.gif"> tag in the lounge example? Did you forget the closing tag? A: Wow, sharp eye. There are some elements that use a shorthand notation with only one tag. Keep that in the back of your mind for now and we'll come back to it in a later chapter.

Q: An element is an opening tag + content + closing tag, but can't you have tags inside other tags? Like the head and body are inside an <html> tag?

A: Yes, HTML tags are often "nested" like that. If you think about it, it's natural for an HTML page to have a body, which contains a paragraph, and so on. So many HTML elements have other HTML elements between their tags. We'll take a good look at this kind of thing in later chapters, but for now just get your mind noticing how the elements relate to each other in a page.



Tags can be a little more interesting than what you've seen so far. Here's the paragraph tag with a little extra added to it. What do you think this does?

A smooth, mild
blend of coffees from Mexico, Bolivia
and Guatemala.



Okay, it looks like you're getting somewhere. You've got the main page and the mission page all set. But, don't forget the CEO said the site needs to look great too. Don't you think it needs a little style?

•0

## Right. We have the structure down, so now we're going to concentrate on its presentation.

You already know that HTML gives you a way to describe the structure of the content in your files. When the browser displays your HTML, it uses its own built-in default style to present this structure. But, relying on the browser for style obviously isn't going to win you any "designer of the month" awards.

That's where CSS comes in. CSS gives you a way to describe how your content should be presented. Let's get our feet wet by creating some CSS that makes the Starbuzz page look a little more presentable (and launch your Web career in the process).

CSS is an abbreviation for Cascading Style Sheets. We'll get into what that all means later, but for now just know that CSS gives you a way to tell the browser how elements in your page should look.

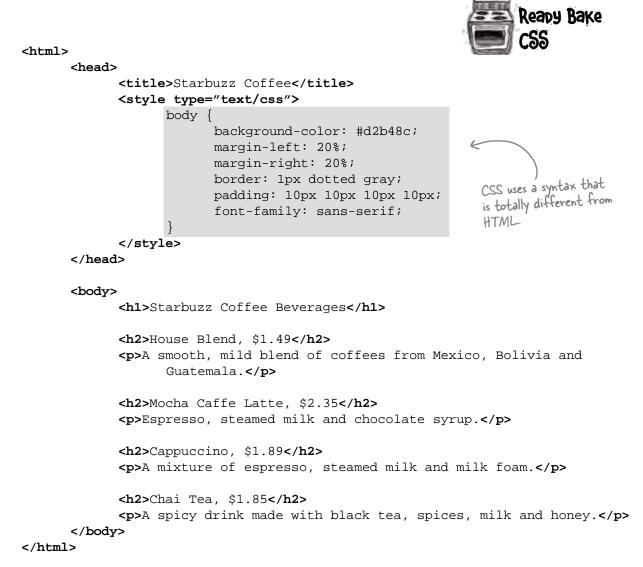
# Meet the style element

To add style, you add a new (say it with us) E-L-E-M-E-N-T to your page – the **<style>** element. Let's go back to the The <style> element is placed inside the main Starbuzz page and add some style. Check it out... head of your HTML. Just like other elements, the <style> element has an opening tag, <style>, <html> and a closing tag, </style> ... <head> <title>Starbuzz Coffee</title> ..but, the <style> tag also requires an <style type="text/css"> attribute, called type, which tells the browser the kind of style you're using. Because you're going to use CSS, you </style> need to specify the "text/css" type. </head> And, here's where you're <body> going to define the styles <h1>Starbuzz Coffee Beverages</h1> for the page. <h2>House Blend, \$1.49</h2> A smooth, mild blend of coffees from Mexico, Bolivia and Guatemala. <h2>Mocha Caffe Latte, \$2.35</h2> Espresso, steamed milk and chocolate syrup. <h2>Cappuccino, \$1.89</h2> A mixture of espresso, steamed milk and milk foam. <h2>Chai Tea, \$1.85</h2> A spicy drink made with black tea, spices, milk and honey. </body> </html> there are no Dumb Questions An element can have an "attribute?" What does that Why do I have to specify the type of the style, mean? "text/css", as an attribute of the style? Are there other kinds of style? Attributes give you a way to provide additional information A: There aren't currently any other styles that work with about an element. Like, if you have a style element, the attribute allows you to say exactly what kind of style you're talking about. today's browsers, but those designers of HTML are always You'll be seeing a lot more attributes for various elements; just planning ahead and anticipate that there may be other types of remember they give you some extra info about the element. style in the future. Personally, we're holding our breath for the <style type="50sKitsch"> style.

# Giving Starbuzz some style...

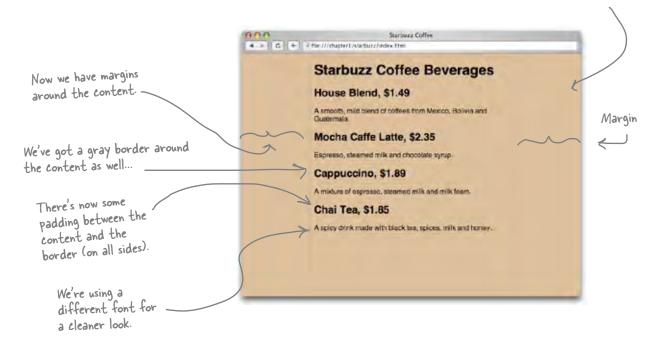
Now that you've got a **<style>** element in the HTML head, all you need to do is supply some CSS to give the page a little pizazz. Below you'll find some CSS already "baked" for you. Whenever you see the **Searcy** logo, you're seeing HTML and CSS that you should type in as-is. Trust us. You'll learn how the markup works *later*, after you've seen what it can do.

So, take a look at the CSS and then add it to your "index.html" file. Once you've got it typed in, save your file.



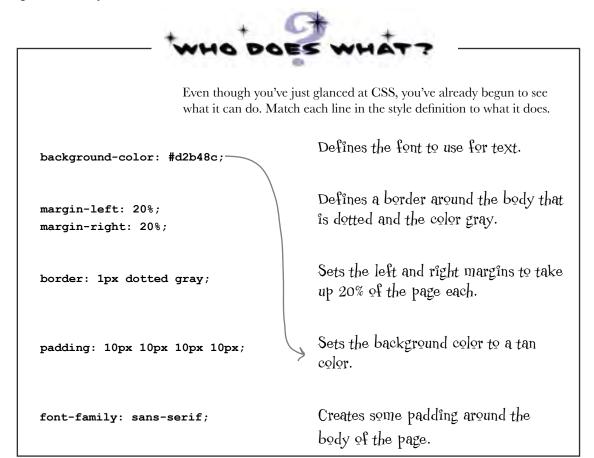
# Cruisin' with style...

It's time for another test drive, so reload your "index.html" file again. This time you'll see the Starbuzz Web page has a whole new look.



Background color is now tan.





# Dumb Questions

Q: CSS looks like a totally different language than HTML. Why have two languages? That's just more for me to learn, right?

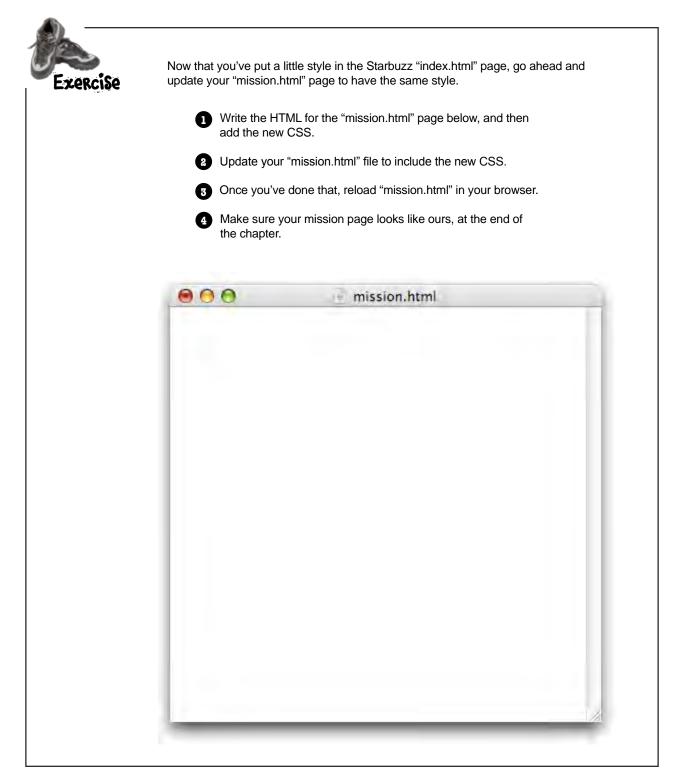
A: You are quite right that HTML and CSS are completely different languages, but that is because they have very different jobs. Just like you wouldn't use English to balance your checkbook, or Math to write a poem, you don't use CSS to create structure or HTML to create style because that's not what they were designed for. While it does mean you need to learn two languages, you'll discover that because each language is good at what it does, this is actually easier than if you had to use one language to do both jobs.

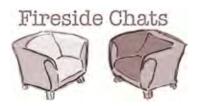
Q: #d2b48c doesn't look like a color. How is #d2b48c the color "tan"?

A: There are a few different ways to specify colors with CSS. The most popular is called a "hex code", which is what #d2b48c is. This really is a tan color. For now, just go with it, and we'll be showing you exactly how #d2b48c is a color a little later. Q: Why is there a "body" in front of the CSS rules? What does that mean?

A: The "body" in the CSS means that all the CSS between the "{" and "}" applies to content within the HTML **<body>** element. So when you set the font to sans-serif, you're saying that the default font within the body of your page should be sans-serif.

We'll go into a lot more detail about how CSS works shortly, so keep reading. Soon, you'll see that you can be a lot more specific about how you apply these rules, and by doing so you can create some pretty cool designs.





Tonight's talk: HTML and CSS on content and style.

## HTML

Greetings CSS; I'm glad you're here because I've been wanting to clear up some confusion about us.

Lots of people think that my tags tell the browsers how to *display* the content. It's just not true! I'm all about *structure*, not presentation.

Well, you can see how some people might get confused; after all, it's possible to use HTML without CSS and still get a decent-looking page.

Hey, I'm pretty powerful too. Having your content structured is much more important than having it look good. Style is so superficial; it's the structure of the content that matters.

Whoa, what an ego! Well I guess I shouldn't expect anything else from you – you're just trying to make a fashion statement with all that style you keep talking about.

## CSS

Really? What kind of confusion?

Heck yeah - I don't want people giving you credit for my work!

"Decent" might be overstating it a bit, don't you think? I mean, the way most browsers display straight HTML looks kinda crappy. People need to learn how powerful CSS is and how easily I can give their web pages great style.

Get real! Without me web pages would be pretty damn boring. Not only that, take away the ability to style pages and no one is going to take your pages seriously. Everything is going to look clumsy and unprofessional.

### HTML

## Right. In fact we're totally different languages, which is good because I wouldn't want any of your style designers messing with my structure elements.

### CSS

Fashion statement? Good design and layout can have a huge effect on how readable and usable pages are. And you should be happy that my flexible style rules allow designers to do all kinds of interesting things with your elements without messing up your structure.

Don't worry, we're living in separate universes.

Yea, that is obvious to me any time I look at CSS – talk about an alien language.

Millions of web writers would disagree with you. I've got a nice clean syntax that fits right in with the content. Yeah, like HTML can be called a language? Who has ever seen such a clunky thing with all those tags?

Just take a look at CSS; it's so elegant and simple, no goofy angle brackets <around> <everything>. <See> <I> <can><talk> <just><like><Mr.><HTML><,><look><at> <me><!>

Hey stupid, ever heard of closing tags?

Just notice that no matter where you go, I've got you surrounded by <style> tags. Good luck escaping!

Ha! I'll show you... because, guess what? I can escape...



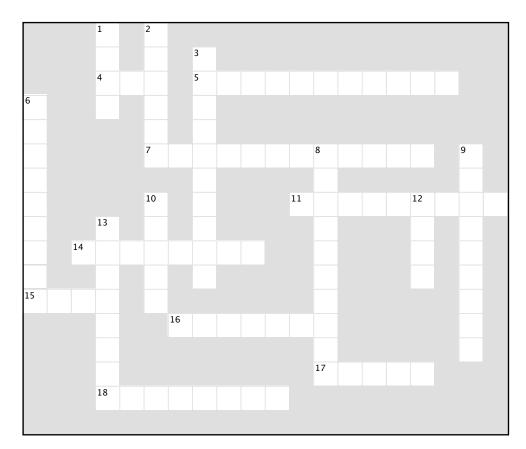
- HTML and CSS are the languages we use to create web pages.
- Web servers store and serve Web pages, which are created from HTML and CSS.
   Browsers retrieve pages and render their content based on the HTML and CSS.
- HTML is an abbreviation for HyperText Markup Language and is used to structure your web page.
- CSS is an abbreviation for Cascading Style Sheets, and is used to control the presentation of your HTML.
- Using HTML we mark up content with tags to provide structure. We call matching tags, and their enclosed content, elements.
- An element is composed of three parts: an opening tag, content and a closing tag. There are a few elements, like <img>, that are an exception to this rule.
- Opening tags can have attributes. We've seen a couple: type and align.

- Closing tags have a "/" after the left angle bracket, in front of the tag name to distinguish them as closing tags.
- Your pages should always have an <html> element along with a <head> element and a <body> element.
- Information about the Web page goes into the <head> element.
- What you put into the <body> element is what you see in the browser.
- Most whitespace (tabs, returns, spaces) are ignored by the browser, but you can use these to make your HTML more readable (to you).
- CSS can be added to an HTML Web page by putting the CSS rules inside the <style> element. The <style> element should always be inside the <head> element.
- You specify the style characteristics of the elements in your HTML using CSS.



# HTMLeross

It's time to sit back and give your left brain something to do. It's your standard crossword; all of the solution words are from this chapter.

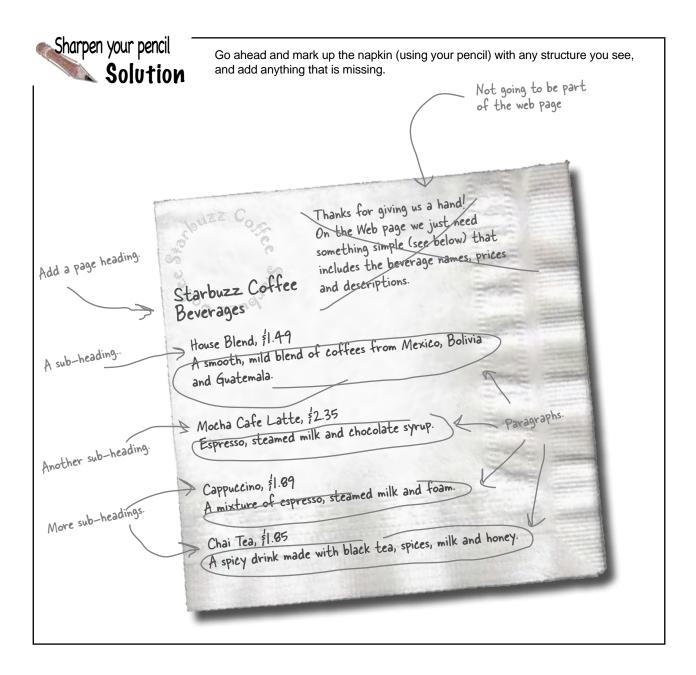


#### Across

- 4. We emphasized this.
- 5. Always separate these in HTML.
- 7. CSS is used when you need to control this.
- 11. You markup content to provide this.
- 14. Only style available.
- 15. About your web page.
- 16. Two tags and content.
- 17. You define presentation through this tag.
- 18. Company that launched your web career.

#### Down

- 1. What you see in your page.
- 2. The "M" in HTML.
- 3. Browsers ignore this.
- 6. Style we're all waiting on.
- 8. Tags can have these to provide additional
- information.
- 9. Purpose of element.
- 10. Appears at the top of the browser for each page.
- 12. Opening and closing.
- 13. There are six of these.





# Markup Magnets Solution

Your job is to add some structure to the text from the Starbuzz napkin. Use the fridge magnets at the bottom of the page to mark up the text so that you've indicated which parts are headings, subheadings and paragraph text. We've already done a few to get you started. You won't need all the magnets below to complete the job; some will be left over.

