A Brain-Friendly Guide

Head First Web Design

A Learner's Companion to Accessible, Usable, Engaging Websites



Master the triadic and tetradic color schemes.



Use accessibility to get your message out to millions.

Ethan Watrall & Jeff Siarto

Learn how drawing pictures produces better websites.



Give your users what they really want from your website.

Prevent the pernicious Foo Bar from ripping off your designs.



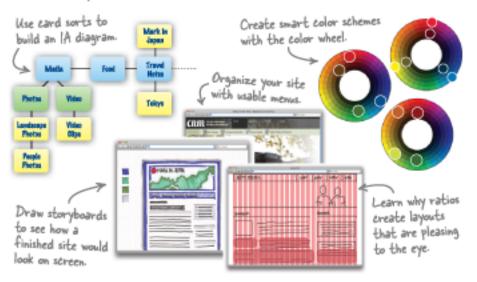
Head First Web Design

Web Design

What will you learn from this book?

Ever wished you could learn real web design from a book? Wondering how to make your pages look beautiful, communicate your message effectively, and get your site approved by the accessibility and usability police, all at the same time?

Head First Web Design is your ticket to mastering all of these topics. You'll learn the secrets of designing incredible, user-friendly sites, from customer requirements to hand-drawn storyboards all the way to finished HTML and CSS online masterpieces... and your sites will actually work, too!



Why does this book look so different?

We think your time is too valuable to spend struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, *Head First Web Design* uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep. "Simplified, but far from dumbeddown. Practical and intuitive. I wish I had access to a book like this when I was getting started."

> — Matt DiGangi, Real life web designer

"Finally a developer can fully understand the whole process of creating a GREAT website. Web Design 101, you finally got the book you needed/ wanted."

> — Johannes de Jong. Web Programmer





Free online edition for 45 days with purchase of this book. Details on last page.



Head First Web Design

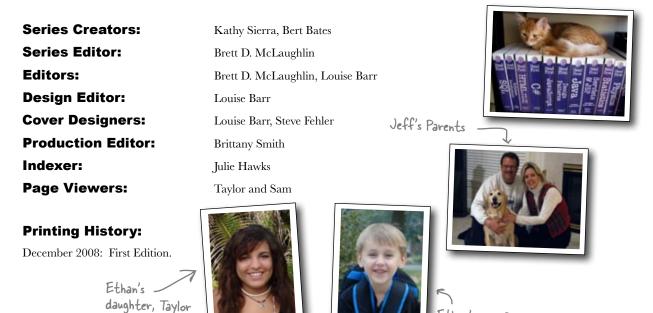
by Ethan Watrall and Jeff Siarto

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Ethan's son, Sam

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No personas were harmed in the making of this book.

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Advance Praise for Head First Web Design

"Building websites has definitely become more than just writing code. *Head First Web Design* shows you what you need to know to give your users an appealing and satisfying experience. Another great Head First book!"

- Sarah Collings, User Experience Software Engineer

"Simplified, but far from dumbed-down. Practical and intuitive. I wish I had access to a book like this when I was getting started."

- Matt DiGangi, real life Web Designer

"Head First Web Design really demystifies the web design process and makes it possible for any web programmer to give it a try. For a web developer who has not taken web design classes, Head First Web Design confirmed and clarified a lot of theory and best practices that seem to be just assumed in this industry."

- Ashley Doughty, Senior Web Developer

"Finally a developer can fully understand the whole process of creating a GREAT website. Web Design 101 you finally got the book you needed/wanted."

-Johannes de Jong, Web Programmer

"The Head First series learning technique works well. You feel as though you are working through an actual design process, instead of just reading a how-to manual. It's a much more holistic approach to learning. The books work with your mind, rather than against it."

- Jonathan Moore, owner of Forerunner Design

Love and thanks to my family-Jenn, Taylor, Sam (and Oscar and Persia).

— Ethan

To my Mom—for helping me realize my dreams and inspiring me to follow them. This book would not have been possible without you.

— Jeff

Authors of Head First Web Design

Ethan Watrall



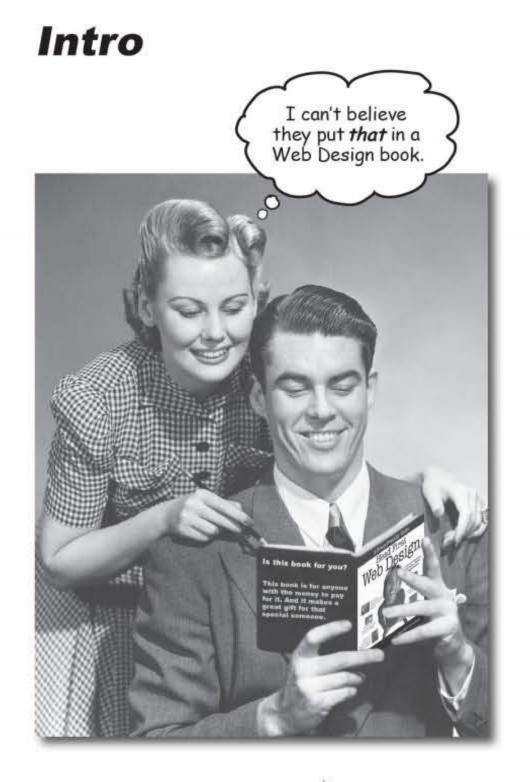


Ethan Watrall is an Assistant Professor at Matrix: The Center for Humane Arts, Letters & Social Sciences Online, an Assistant Professor in the Department of Telecommunication, Information Studies, and Media, and an Adjunct Assistant Professor in the Department of History at Michigan State University. In addition, Ethan is a Principal Investigator in the Games for Entertainment & Learning Lab, and co-founder of both the undergraduate Specialization and Game Design Development and the MA in Serious Game Design at Michigan State University. Ethan teaches in a wide variety of areas including cultural heritage informatics, user centered & user experience design, game design, serious game design, game studies, and ancient Egyptian social history & archaeology. In addition to a wide variety of academic papers and conference presentations, Ethan has written a number of books on interactive design & web design.

When he's not being professorial, he's a world class comic book nerd (Killowog is so his favorite Green Lantern), a sci-fi dork (he'll argue to the grave that Tom Baker is the best Doctor ever), and an avid player of all sorts of games (digital, board, and tabletop). Ethan's digital alterego can be found at **www.captainprimate.com** or **www.twitter.com/captain_primate**. Jeff Siarto is a user experience and web designer fresh out of grad school at Michigan State University. Jeff was a student of the standards-based web design movement—aspiring to the likes of Cederholm, Zeldman and Meyer—and worked as a web developer throughout his college years before signing on to co-author Head First Web Design in his second year of grad school. In addition to building websites, he also works to improve online courses and open education through simple, usable design. Jeff currently calls Chicago home and works as a freelance web developer and part time Iron Chef challenger. When he's not working, he likes to cook and eat (mostly eat) and make endless design changes to his blog at **www.siarto.com**.

You can see what Jeff is doing right now by checking out his Twitter feed at **www.twitter.com/jsiarto** or, if you're really bored, you can send him an email at **jeff@siarto.com**.

how to use this book



In this section we answer the burning question: "So why DID they put that in a Web Design book?"

Who is this book for?

If you can answer "yes" to all of these:



Are you **comfortable with XHTML & CSS** but don't have any experience with web design?



Do you consider yourself a web developer (working in a fun environment like PHP, Ruby on Rails, .NET) and want to become a better web designer?



Do you need to understand web design for a course, your line of work, or you simply want to impress people at parties with your vast knowledge of The Golden Ratio and the Web Content Accessibility Guidelines?

this book is for you.

Who should probably back away from this book?

If you can answer "yes" to any of these:



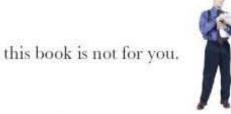
Are you someone who doesn't have any experience with HTML/XHTML & CSS?



Are you an accomplished web or graphic designer looking for a reference book?



Are you someone who likes to build webpages with tools like **Frontpage and Dreamweaver**, so you don't ever have to look at code? If this is the case, don't worry. Go pick up Head First HTML with CSS & XHTML by Elisabeth Freeman and Eric Freeman, and then come back to this book.



ENote from marketing: this book is for anyone with a credit card.]

We know what you're thinking

"How can this be a serious Web Design book?"

"What's with all the graphics?"

"Can I actually learn it this way?"

We know what your brain is thinking

Your brain craves novelty. It's always searching, scanning, *waiting* for something unusual. It was built that way, and it helps you stay alive.

So what does your brain do with all the routine, ordinary, normal things you encounter? Everything it *can* to stop them from interfering with the brain's *real* job—recording things that *matter*. It doesn't bother saving the boring things; they never make it past the "this is obviously not important" filter.

How does your brain *know* what's important? Suppose you're out for a day hike and a tiger jumps in front of you, what happens inside your head and body?

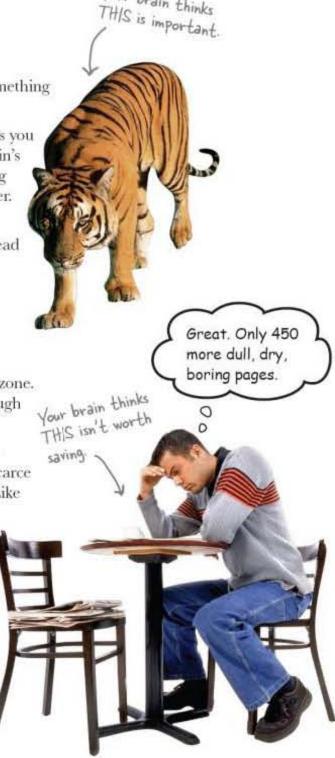
Neurons fire. Emotions crank up. Chemicals surge.

And that's how your brain knows...

This must be important! Don't forget it!

But imagine you're at home, or in a library. It's a safe, warm, tiger-free zone. You're studying. Getting ready for an exam. Or trying to learn some tough technical topic your boss thinks will take a week, ten days at the most.

Just one problem. Your brain's trying to do you a big favor. It's trying to make sure that this *obviously* non-important content doesn't clutter up scarce resources. Resources that are better spent storing the really *big* things. Like tigers. Like the danger of fire. Like the old school NES cheat code for Contra ($\uparrow \uparrow \downarrow \downarrow \leftrightarrow \leftrightarrow$ BA). And there's no simple way to tell your brain, "Hey brain, thank you very much, but no matter how dull this book is, and how little I'm registering on the emotional Richter scale right now, I really *do* want you to keep this stuff around."



Your brain thinks

We think of a "Head First" reader as a learner.

So what does it take to learn something? First, you have to get it, then make sure you don't forget it. It's not about pushing facts into your head. Based on the latest research in cognitive science, neurobiology, and educational psychology, learning takes a lot more than text on a page. We know what turns your brain on.

Some of the Head First learning principles:

Importance Make it visual. Images are far more memorable than words alone, and make learning much more effective (up to 89% improvement in recall and transfer studies). It also makes things more understandable. Put the words within or near the graphics they relate to, rather than on the bottom or on another page, and learners will be up to twice as likely to solve problems related to the content.

Sidebors can hold everything from link lists to extra body content. They can also be useful for ancillary navigation and archive links for blogs.

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Use a conversational and personalized style. In recent studies, students performed up to 40% better on post-learning tests if the content spoke directly to the reader, using a first-person, conversational style rather than taking a formal tone. Tell

stories instead of lecturing. Use casual language. Don't take yourself too seriously. Which would you pay more attention to: a stimulating dinner party companion, or a lecture?

Get the learner to think more deeply. In other words, unless you actively flex your neurons, nothing much happens in your head. A reader has to be motivated, engaged, curious, and inspired to solve problems, draw conclusions, and generate new knowledge. And for that, you need challenges, exercises, and thought-provoking questions, and activities that involve both sides of the brain and multiple senses.

Get—and keep—the reader's attention. We've all had the "I really want to learn this but I can't stay awake past page one" experience. Your brain pays attention to things that are out of the ordinary, interesting, strange, eyecatching, unexpected. Learning a new, tough, technical topic doesn't have to be boring. Your brain will learn much more quickly if it's not.



Touch their emotions. We now know that your ability to remember something is largely dependent on its emotional content. You remember what you care about. You remember when you feel something. No, we're not talking heart-wrenching stories about a boy and his dog. We're talking emotions like surprise, curiosity, fun, "what the ...?", and the feeling of "I Rule!" that comes when you solve a puzzle, learn something everybody else thinks is hard, or realize you know something that "I'm more technical than thou" Bob from

Activities Notes about the daily things Mark did in Japan. Bars and Nightlife A look at the bars and nightlife in and around Tokyo and Kyoto.

It sure seems like nobody considered I'd be using a screen reader for this site.

xxiv

intro

Metacognition: thinking about thinking

If you really want to learn, and you want to learn more quickly and more deeply, pay attention to how you pay attention. Think about how you think. Learn how you learn.

Most of us did not take courses on metacognition or learning theory when we were growing up. We were *expected* to learn, but rarely *taught* to learn.

But we assume that if you're holding this book, you really want to learn how to design user-friendly websites. And you probably don't want to spend a lot of time. If you want to use what you read in this book, you need to *remember* what you read. And for that, you've got to *understand* it. To get the most from this book, or *any* book or learning experience, take responsibility for your brain. Your brain on *this* content.

The trick is to get your brain to see the new material you're learning as Really Important. Crucial to your well-being. As important as a tiger. Otherwise, you're in for a constant battle, with your brain doing its best to keep the new content from sticking.

So just how DO you get your brain to treat Web Design like it was a hungry tiger?

There's the slow, tedious way, or the faster, more effective way. The slow way is about sheer repetition. You obviously know that you *are* able to learn and remember even the dullest of topics if you keep pounding the same thing into your brain. With enough repetition, your brain says, "This doesn't *feel* important to him, but he keeps looking at the same thing *over* and *over* and *over*, so I suppose it must be."

The faster way is to do **anything that increases brain activity**, especially different *types* of brain activity. The things on the previous page are a big part of the solution, and they're all things that have been proven to help your brain work in your favor. For example, studies show that putting words *within* the pictures they describe (as opposed to somewhere else in the page, like a caption or in the body text) causes your brain to try to makes sense of how the words and picture relate, and this causes more neurons to fire. More neurons firing = more chances for your brain to *get* that this is something worth paying attention to, and possibly recording.

A conversational style helps because people tend to pay more attention when they perceive that they're in a conversation, since they're expected to follow along and hold up their end. The amazing thing is, your brain doesn't necessarily *care* that the "conversation" is between you and a book! On the other hand, if the writing style is formal and dry, your brain perceives it the same way you experience being lectured to while sitting in a roomful of passive attendees. No need to stay awake.

But pictures and conversational style are just the beginning...



Here's what WE did:

We used **pictures**, because your brain is tuned for visuals, not text. As far as your brain's concerned, a picture really *is* worth a thousand words. And when text and pictures work together, we embedded the text *in* the pictures because your brain works more effectively when the text is *within* the thing the text refers to, as opposed to in a caption or buried in the text somewhere.

We used *redundancy*, saying the same thing in *different* ways and with different media types, and *multiple senses*, to increase the chance that the content gets coded into more than one area of your brain.

We used concepts and pictures in **unexpected** ways because your brain is tuned for novelty, and we used pictures and ideas with at least *some* **emotional** content, because your brain is tuned to pay attention to the biochemistry of emotions. That which causes you to *feel* something is more likely to be remembered, even if that feeling is nothing more than a little **humor**, **surprise**, or **interest**.

We used a personalized, *conversational style*, because your brain is tuned to pay more attention when it believes you're in a conversation than if it thinks you're passively listening to a presentation. Your brain does this even when you're *reading*.

We included more than 80 *activities*, because your brain is tuned to learn and remember more when you *do* things than when you *read* about things. And we made the exercises challenging-yet-do-able, because that's what most people prefer.

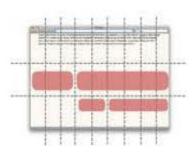
We used *multiple learning styles*, because *you* might prefer step-by-step procedures, while someone else wants to understand the big picture first, and someone else just wants to see an example. But regardless of your own learning preference, *everyone* benefits from seeing the same content represented in multiple ways.

We include content for **both sides of your brain**, because the more of your brain you engage, the more likely you are to learn and remember, and the longer you can stay focused. Since working one side of the brain often means giving the other side a chance to rest, you can be more productive at learning for a longer period of time.

And we included *stories* and exercises that present *more than one point of view*, because your brain is tuned to learn more deeply when it's forced to make evaluations and judgments.

We included *challenges*, with exercises, and by asking *questions* that don't always have a straight answer, because your brain is tuned to learn and remember when it has to *work* at something. Think about it—you can't get your *body* in shape just by *watching* people at the gym. But we did our best to make sure that when you're working hard, it's on the *right* things. That *you're not spending one extra dendrite* processing a hard-to-understand example, or parsing difficult, jargon-laden, or overly terse text.

We used **people**. In stories, examples, pictures, etc., because, well, because *you'ne* a person. And your brain pays more attention to *people* than it does to *things*.













Here's what YOU can do to bend your brain into submission

So, we did our part. The rest is up to you. These tips are a starting point; listen to your brain and figure out what works for you and what doesn't. Try new things.

Cut this out and stick it on your refrigerator.

Slow down. The more you understand, the less you have to memorize.

Don't just *read*. Stop and think. When the book asks you a question, don't just skip to the answer. Imagine that someone really *is* asking the question. The more deeply you force your brain to think, the better chance you have of learning and remembering.

Do the exercises. Write your own notes.

We put them in, but if we did them for you, that would be like having someone else do your workouts for you. And don't just *look* at the exercises. **Use a pencil.** There's plenty of evidence that physical activity *while* learning can increase the learning.

Read the "There are No Dumb Questions"

That means all of them. They're not optional sidebars, *they're part of the core content!* Don't skip them.

Make this the last thing you read before bed. Or at least the last challenging thing.

Part of the learning (especially the transfer to long-term memory) happens *after* you put the book down. Your brain needs time on its own, to do more processing. If you put in something new during that processing time, some of what you just learned will be lost.

(5)

5

Talk about it. Out loud.

Speaking activates a different part of the brain. If you're trying to understand something, or increase your chance of remembering it later, say it out loud. Better still, try to explain it out loud to someone else. You'll learn more quickly, and you might uncover ideas you hadn't known were there when you were reading about it.

Brink water. Lots of it.

Your brain works best in a nice bath of fluid. Dehydration (which can happen before you ever feel thirsty) decreases cognitive function.

Listen to your brain.

Pay attention to whether your brain is getting overloaded. If you find yourself starting to skim the surface or forget what you just read, it's time for a break. Once you go past a certain point, you won't learn faster by trying to shove more in, and you might even hurt the process.

Feel something.

(9)

Your brain needs to know that this *matters*. Get involved with the stories. Make up your own captions for the photos. Groaning over a bad joke is *still* better than feeling nothing at all.

Design and Build Websites

There's only one way to become an experienced web designer: design and build websites. Now, this might mean building layouts on paper, doing card sorts to develop your information architecture, or writing lots of CSS. The point is that you will never become a great web designer if you just read about it-you need to do it. We're going to give you a lot of practice: every chapter has exercises that pose problems for you to solve or asks questions that you need to think about. Don't just skip over them-a lot of the learning happens when you work on the exercises. We included a solution to each exercise, so don't be afraid to peek at the solution if you get stuck, but try to solve the problem before you look at the solution. And definitely get it working before you move on to the next part of the book.

Read Me

This is a learning experience, not a reference book. We deliberately stripped out everything that might get in the way of learning whatever it is we're working on at that point in the book. And the first time through, you need to begin at the beginning because the book makes assumptions about what you've already seen and learned.

We start off by teaching one of the most important concepts in web design—the design process—and then we move on to more specific design topics.

The design process is the foundation for developing a great-looking website. Each step gets you closer to better pages, and along the way, you create everything from a visual metaphor to a map of the site's content. Once you understand the overall design process, you can then dive into the details and begin building beautiful websites.

We advocate standards compliant XHTML & CSS.

All of the code that you write during the course of going through this book is standards compliant. This is really important to us, and we would (adamantly) argue that understanding how to think in and write standards compliant XHTML (XHTML 1.0 Strict) & CSS (CSS 2.1) is one of the hallmarks of a talented web designer. There will be no tables for layout, no style information in your markup, and all those tags will be properly closed.

All of the code in this book is available on the Head First site.

Most of the projects in this book will require you to download the code for that particular chapter. Actually, you should just download all the code from the beginning so that you have it ready when the time comes. Sometimes we will ask you to make changes to code that already exists and will provide and "before" and "after" version of the markup and stylesheets.

Every bit of code is not fully explained

We assume that you have a working knowledge of XHTML and CSS and, therefore, don't make it a point to explain every nuance of the code. The important stuff is covered, and the downloadable examples are well documented. Remember, we're trying to make you a better designer not teach you the ins and outs of XHTML and CSS.

The terms "comps" and "storyboards" are used interchangeably.

We introduce storyboarding in this book as method for quickly mocking up design ideas without committing tons of time to code. Sometimes these are referred to as "storyboads," but other times we use the term "comp" (or composition) in reference to the same thing.

We assume that you are using modern browsers.

While we've taken every measure to make sure that our code is cross-browser compatible, you should use a modern browser (IE7+, Safari, Firefox) when putting together the sites in this book. While older browsers (notably IE6 and below) will work, you results may vary, as those browsers are buggy and incredibly finicky.

The activities are NOT optional.

The exercises and activities are not add-ons; they're part of the core content of the book. Some of them are to help with memory, some are for understanding, and some will help you apply what you've learned. Don't skip the exercises.

The redundancy is intentional and important.

One distinct difference in a Head First book is that we want you to really get it. And we want you to finish the book remembering what you've learned. Most reference books don't have retention and recall as a goal, but this book is about learning, so you'll see some of the same concepts come up more than once.

Our markup and CSS examples are as lean as possible.

Our readers tell us that it's frustrating to wade through 200 lines of markup or CSS looking for the two lines they need to understand. Most examples in this book are shown within the smallest possible context so that the part you're trying to learn is clear and simple. Don't expect all of the examples to be robust—or even complete. They are written specifically for learning and aren't always fully-functional.

We've placed files (markup, CSS, images, complete pages) on the Web so you can copy and paste them into your text/markup/code editor. You'll find them at http://www.headfirstlabs.com/books/hfwd

The technical review team

Sarah Collings





Corey McGlone



Matt DiGangi



Pauline McNamara



Ashley Doughty



Jonathan Moore



Technical Reviewers:

Sarah Collings has worked in web design and development for over 7 years and is currently developing usable web applications as a User Experience Software Engineer at Digital River, Inc. She has a Bachelor of Fine Arts in Graphic Design and is working toward a Master's in Software Engineering. In her spare time, Sarah enjoys running and spending time outdoors with her fiancé.

Johannes de Jong is an old dinosaur mainframer that loves to go over to the wild side—building websites, from time to time. His latest experiment is a Google Maps site built with Apex from Oracle, and yes, he will use this book to redesign it.

Matt DiGangi is the creator, designer, and editor of the website Thieves Jargon (www.thievesjargon.com). He lives in Boston. **Ashley Doughty** is a Senior Web Developer from Maine, living and working in the Greater Boston Area. She is a hard core Christian, wife, daughter, reader and GEEK. She loves coding so much that she even does it in her free time.

Corey McGlone has been involved in web development for ten years and has spent the last seven years working primarily in web application development for Schnieder Logistics, Relion Corporation, and Mayo Clinic. He's an avid music lover, is married, and has one little boy at home.

Pauline McNamara Pauline McNamara has worked with university e-Learning projects in Switzerland for the past 6 years, most recently at the Swiss Federal Institute of Technology in Zurich. Her current learning passion involves raising an adorable puppy with her partner (who's also adorable).

Jonathan Moore is the Owner of Forerunner Design, web design and development (forerunnerdesign.com).

Acknowledgments

Our editor:

A crazy big thanks to our editor, **Brett McLaughlin**. Even though he was overloaded with a ton of other books, he always had great feedback and suggestions for how to make our book sharper, smoother, and a far more effective learning tool.





Brett McLaughlin

A huge thanks must go out to **Lou Barr**, who took chapters that we thought looked awesome to begin with, and made them look incredibly polished (and even awesomer)—and we are really grateful for this.

The O'Reilly team:

To **Sanders Kleinfeld**, **Caitrin McCullough**, **Karen Shaner**, who all kept various aspects of the production process running smoothly.

To **Brittany Smith**, the book's Production Editor, who made sure that when the book went to production, everything ran smoothly and efficiently.

Finally, to **Laurie Petrycki**, who had faith in our abilities and our vision enough to let us write this book in the first place.

Ethan's friends, family, and colleagues:

First off, to my wife **Jenn**, who damn near deserves sainthood for putting up with the sheer number of hours I've put into this book (and away from her) and the grumpy mood that I was almost constantly in as a result. To my son, **Sam**, who, one day (somewhere in the middle of me writing the book) asked, "Daddy, are you ever going to stop working so you can play with me?" The book is done Sam, let's do something fun! To my daughter, **Taylor**, who, while she most likely won't admit it, probably thinks it's cool to see her name (and picture) in the book. To **my colleagues at MATRIX** (especially **Mark Kornbluh** and **Dean Rehberger**) for their support (particularly, when I was in the thick of finishing the book off). To my grad students **Joe**, **Pete**, and **Steen**, who made it their morning ritual (especially near the end) to stick their heads in my office to see how the book was doing. And to my big moose of a chocolate lab, **Oscar**—just because.

Jeffs's friends, family, and colleagues:

To Allie, for putting up with months of me working until two in the morning. Also, your InDesign tips were essential to the production of this book; without them, all the images would be stretched and pixelated. To my mom, Jill, dad, Jeff, and brother, Jason. You guys have been an inspiration to me, and I love you all very much. To Rich, Brian and Rabbott (Ryan) and everyone else in the Communication Arts and Sciences Dean's Office at MSU. You guys gave me an opportunity to work in one of the best IT offices in Michigan and allowed me the freedom to develop the skills I needed to write this book. I am forever grateful for the path you guys have lead me down, and this book wouldn't have been possible without your support.

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It's a great big (wide) world... but who's really out there?

So you've got your nice shiny XHTML and CSS diploma hanging on the wall, and the prospective clients are ringing your new business line off the hook. Cool, right? Yeah... until you get your first complaint about a bad layout, or a logo that's just *so* 1998. So how do you create *really beautiful websites* and still make sure they *satisfy your users*? It all begins with good **planning**. Then you've got to **write for the Web**, **know your audience**, and, above all else, make sure you're **designing for your users**, not yourself.

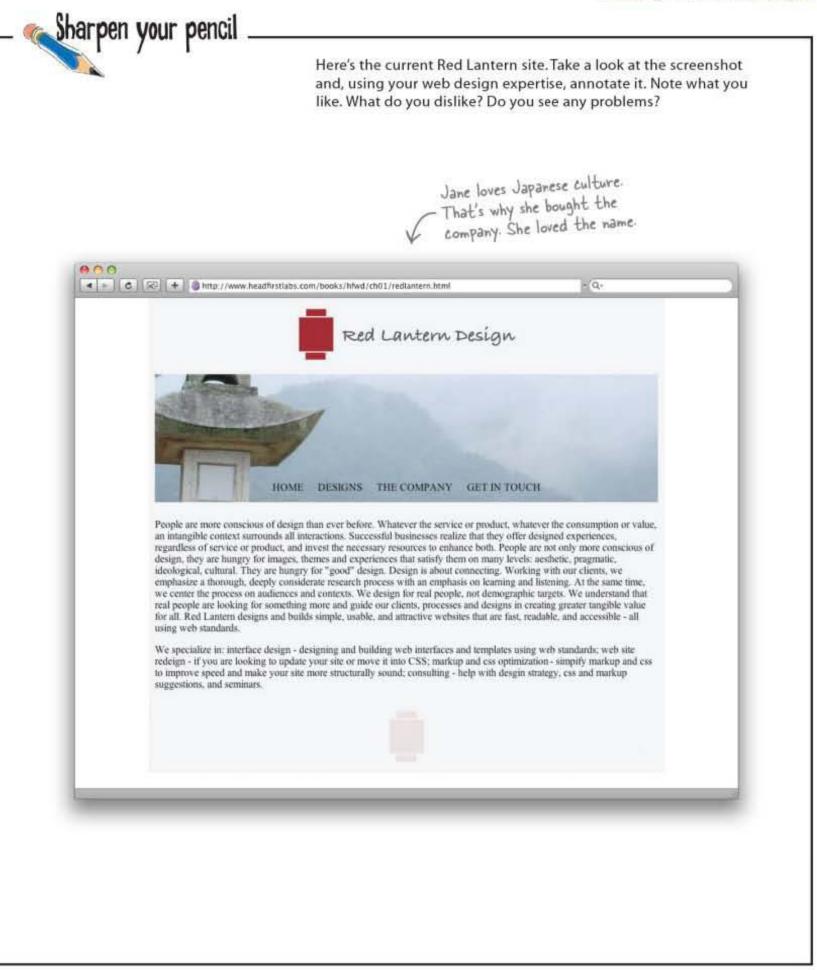
this is a new chapter 1

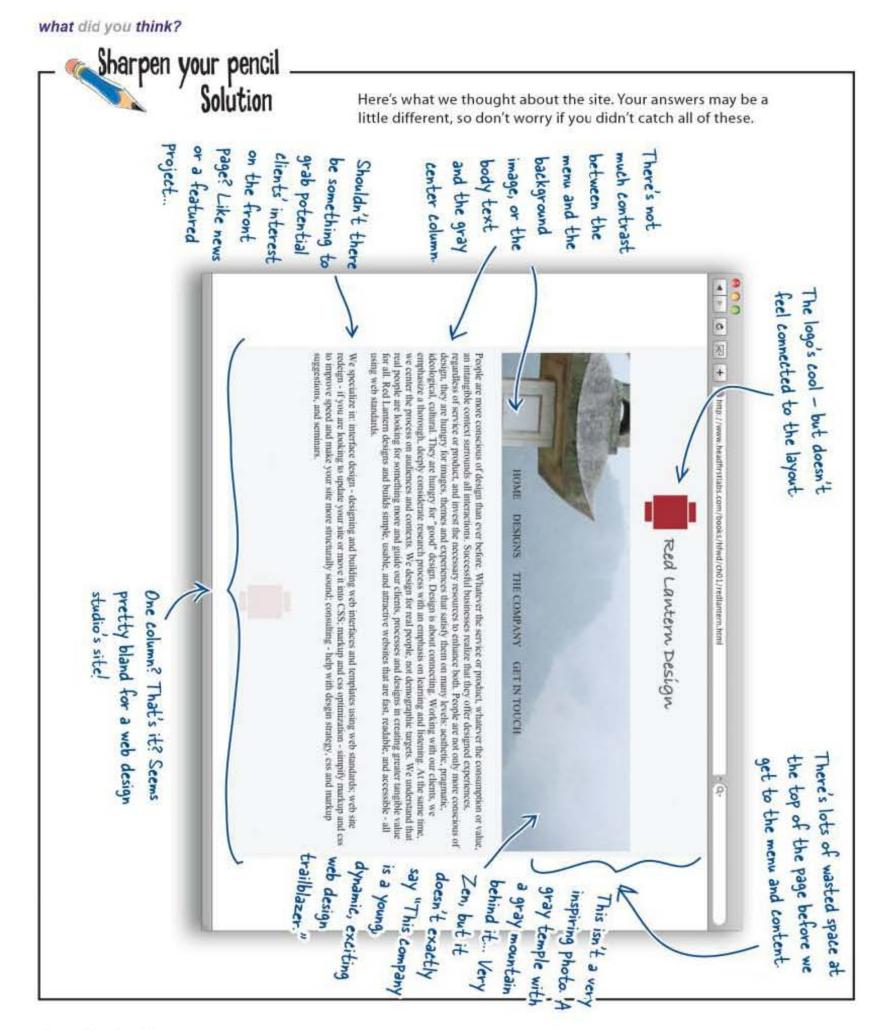
Your big chance with Red Lantern Design

Jane's just bought a small web design studio. Red Lantern Design's been producing small sites for local businesses for several years, and now Jane wants to expand their client-base. But there's a problem...

The old Red Lantern webmaster used a WYSIWYG editor to create the company's own site, and now no one can edit the files. Jane's hired you to build a new site that will bring Red Lantern up to modern web standards and bag the company more lucrative clients.







Where do you start?

There's not a lot that's good about the existing Red Lantern site—the logo's nice, but that's a pretty damning comment on the rest of the design if that's all there is to like. But if there's so much wrong, how can we figure out what to work on next? Where would **you** start?



00

Are you kidding me? How am I supposed to know where to start? I've got a whole bunch of stuff I need to do, so you tell me. What should I do first?

"Where should I start?" and "Where should I go from there?" are really good questions.

The fact you're still asking yourself those questions without opening a text editor is a good sign. The answer to both is, always follow a **design process**. A design process structures your project so that you stay on task and don't go off in every different direction all at once without accomplishing anything but stress, stress, and more stress.

A process is really just a **workflow** that determines the order you do things on a web design project. Imagine you're building a house for someone. It's their dream home, they've got a ton of ideas on their wishlist, and you also need to include the usual things you'd expect to find in a house: walls, floors roof, kitchen, bedroom, bathroom, living areas...

Now ask yourself where you'd start? Would you build the walls first? Would you pick out fabrics, or draw up a blueprint? Which one is going to pay off two weeks from now? Two months? Two years?

Chapter 1

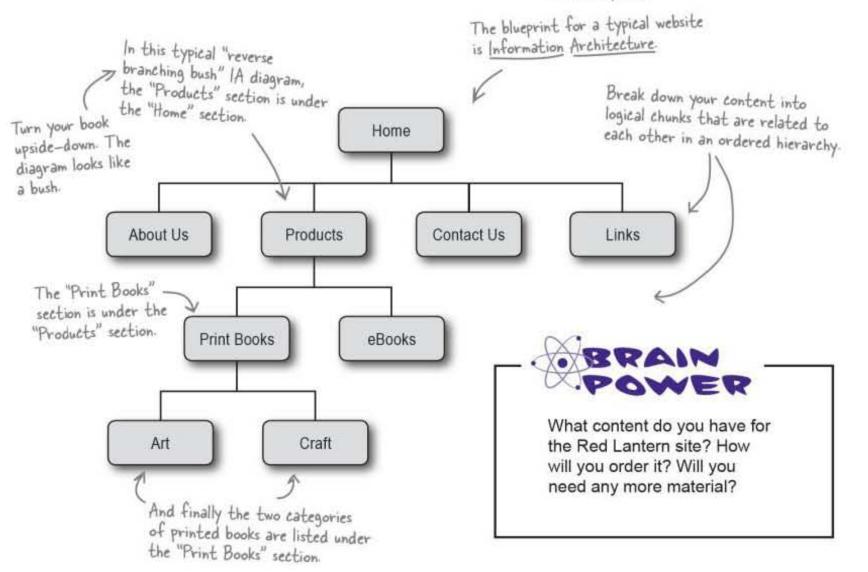
6

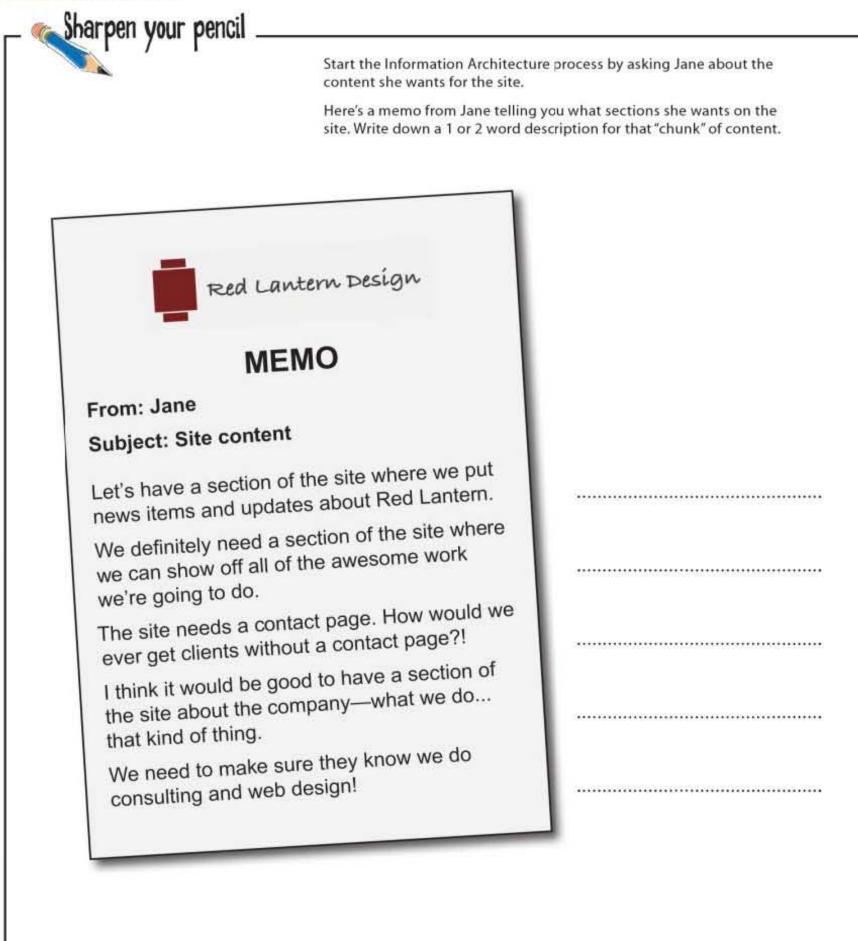
Praw up a blueprint <u>FIRST</u>

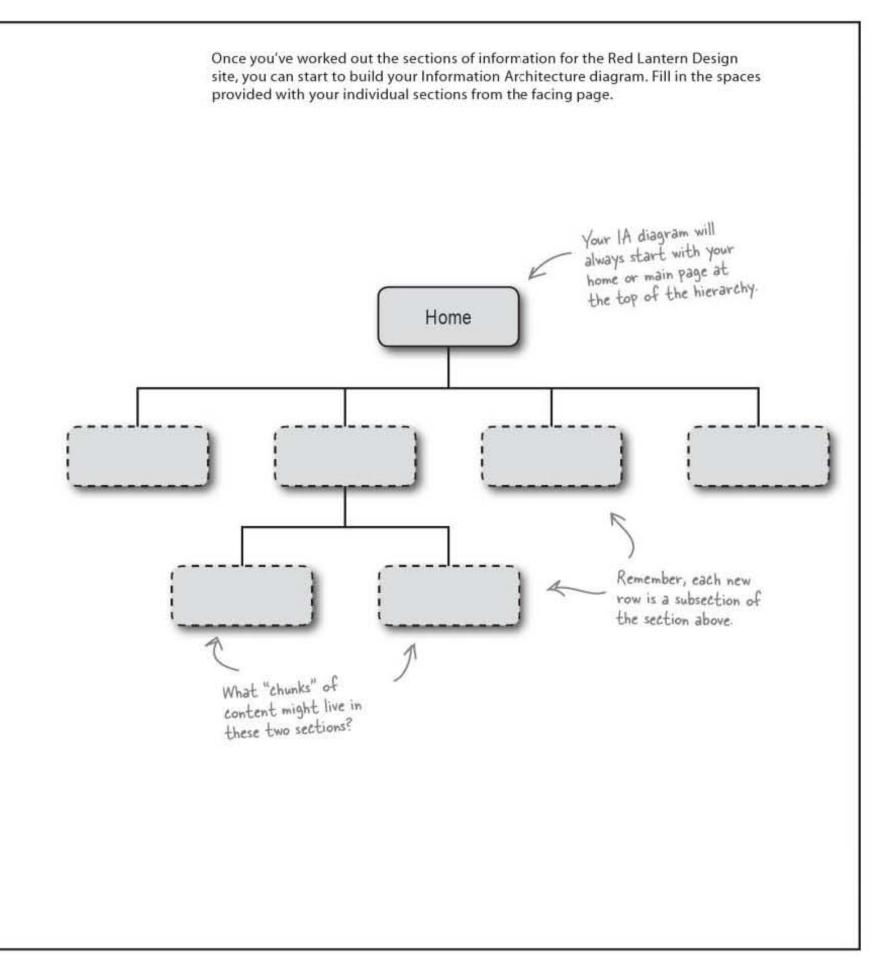
So building a website *is* a lot like building a house. If you start with a blueprint, you'll know exactly where you're headed at every step: foundations, load-bearing walls, and so on. For a website, you use **Information Architecture** (or **IA**). IA is the process by which you break your website's content into chunks and then organize those chunks hierarchically in relation to one another in a way that's logical.

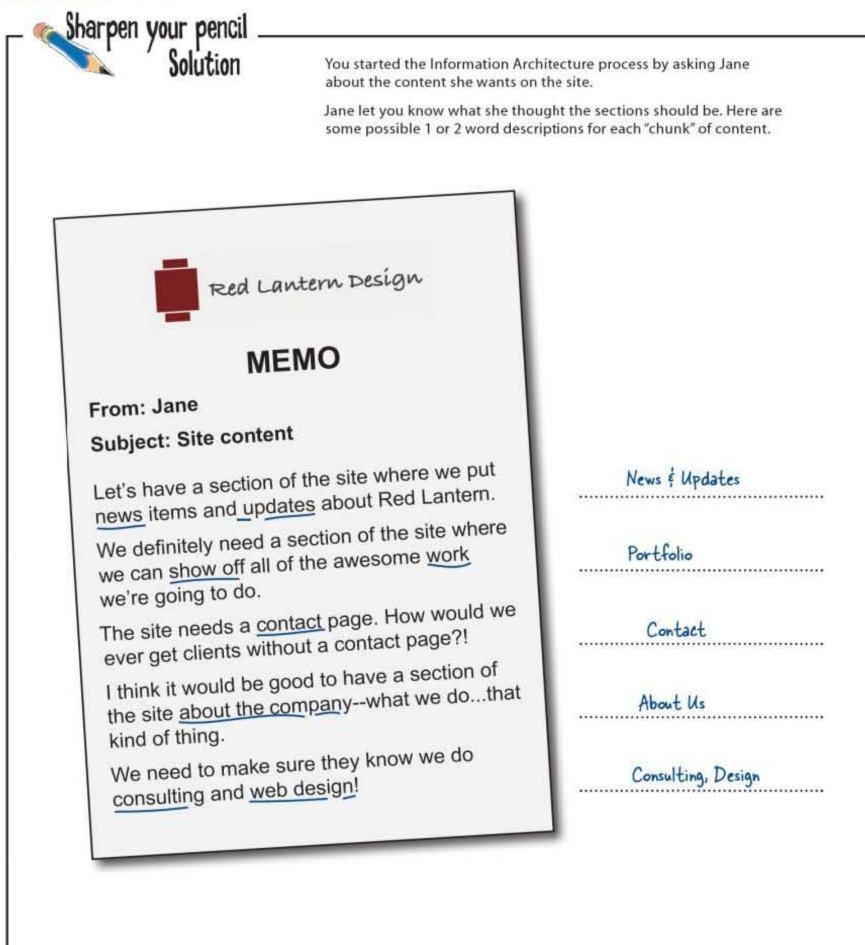
Most of the time, each chunk of information is content (text, images, etc.) that lives on a single page. IA is also closely linked with building your site's navigation. So, if you've got a bad IA, chances are, you'll have a bad navigation system as well. If your site doesn't have solid IA, it will feel disorganized and confusing to users. And that will make users go someplace else to get what they're looking for.

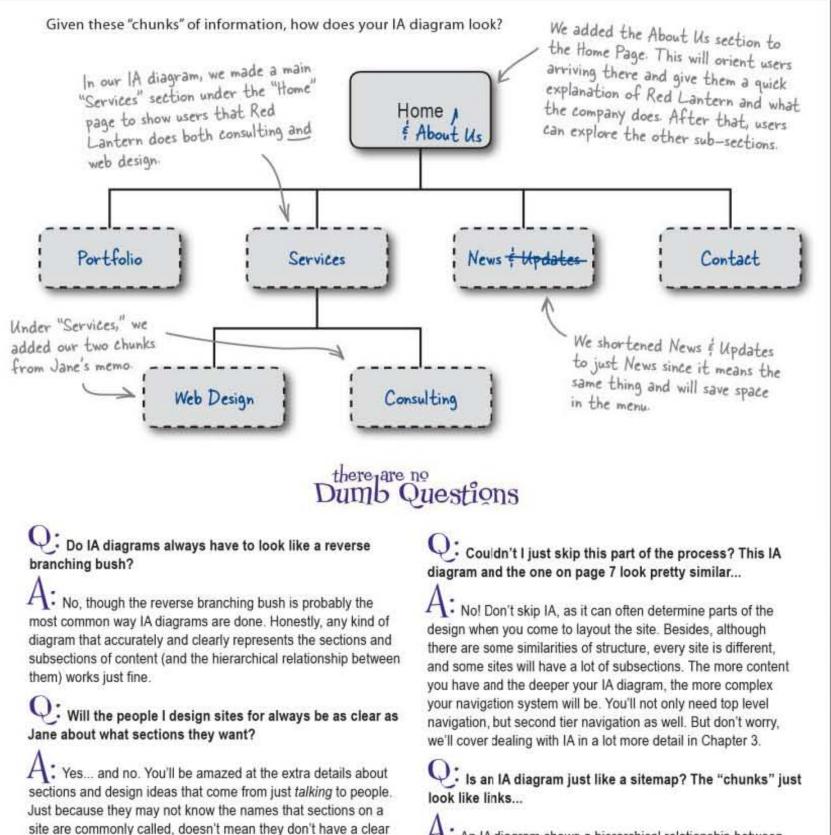
Architecture for your house starts with a blueprint.











idea about what they want their site to contain. Then it's up to you

to organize the sections logically and hierarchically.

A: An IA diagram shows a hierarchical relationship between sections and subsections of content in a site. It isn't meant to show links between sections, but you will use it when you put together the navigation for your site. In fact, let's take a look at that next...

C'mon, all we need for good navigation is some buttons that link to all the pages in our IA diagram, and we're good to go...



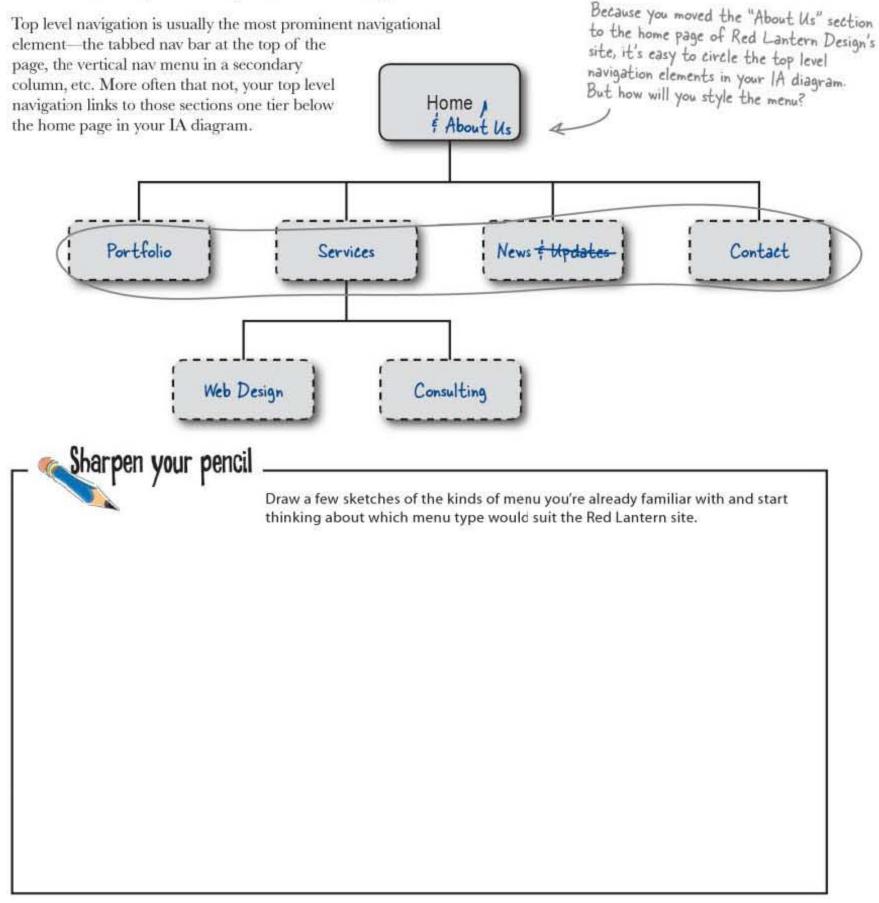
Will that be enough to help your users find their way around the site?

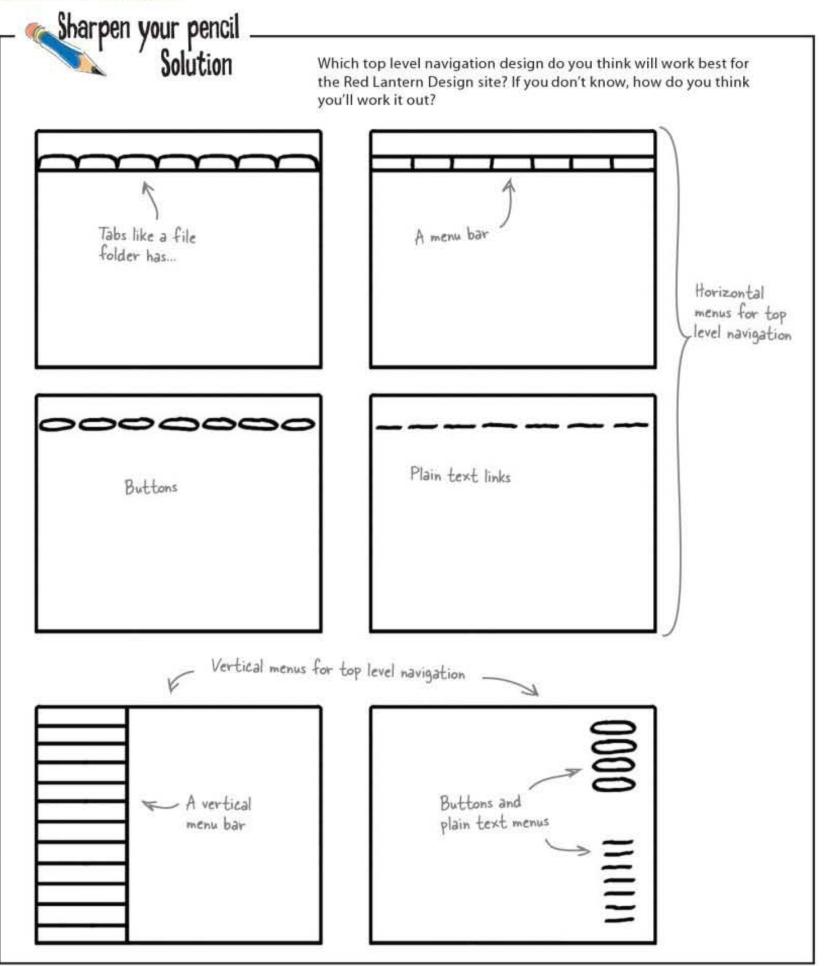
You need to think about navigation *twice* in the design process? First, you need to think about your navigational elements—yes, things like buttons and nav bars—while you work on the *overall layout* of the site.

Navigation will show up again when you begin writing the *code* and building the layout elements that have to do with users finding their way around the site, as well as linking your pages together. But don't jump the gun, you need to start by organizing your top level navigation.

Information Architecture isn't just important for organizing your site's information; it's a big deal for your navigation as well. So, when it comes to building your site's navigation, keep your IA diagram close at hand.

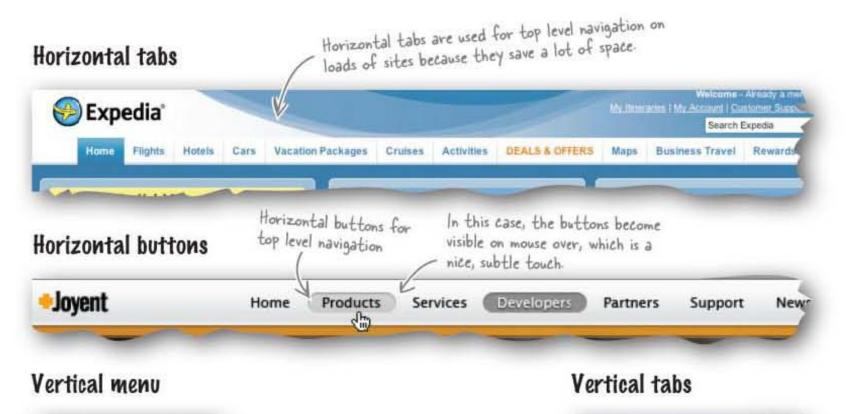
Petermine your Top Level Navigation





Put it all in context

The point of the top level navigation is to show your users where they are within your site's main structure. We'll come back to navigation in a lot more detail in Chapter 6, but for now, you need to ask yourself how you'll style the menu on the Red Lantern site. Time to start thinking about which menu type would suit the site and where it would fit on the page.



Vertical tabs for amazon.com top level navigation Guide de Prague styled with CSS and images add a Vertical menu for Shop All Departments real notebook feel top level navigation. Books to this site. Circuits Back when people Movies, Music & Games first started adding Notice this site's **Digital Downloads** menus to their sites, content is written in Computers & Office 3 this was the most French. See appendix Tarifs. Electronics 5 popular type of menu. I for dealing with Home & Garden > **DÉCOUVRIR PRAGUE** multi-language sites. Grocery, Health & Beauty > en utilisant les services privés de pu Contact Toys, Kids & Baby directement at observez mas service 3 Apparel, Shoes & Jewelry > Sports & Outdoors 3 PRAGUE - VISITES GUIDEE Tools, Auto & Industrial 3

Show Jane some basic design sketches

So you've got the main content mapped out. What will you need to do next? At this stage, it's a good idea to show Jane some basic design sketches...

> Hold it right there! IA diagrams, sketching designs on paper... What's with all the drawing? I thought this was a book on **WEB** design. I don't see much of that happening so far...

> > 0

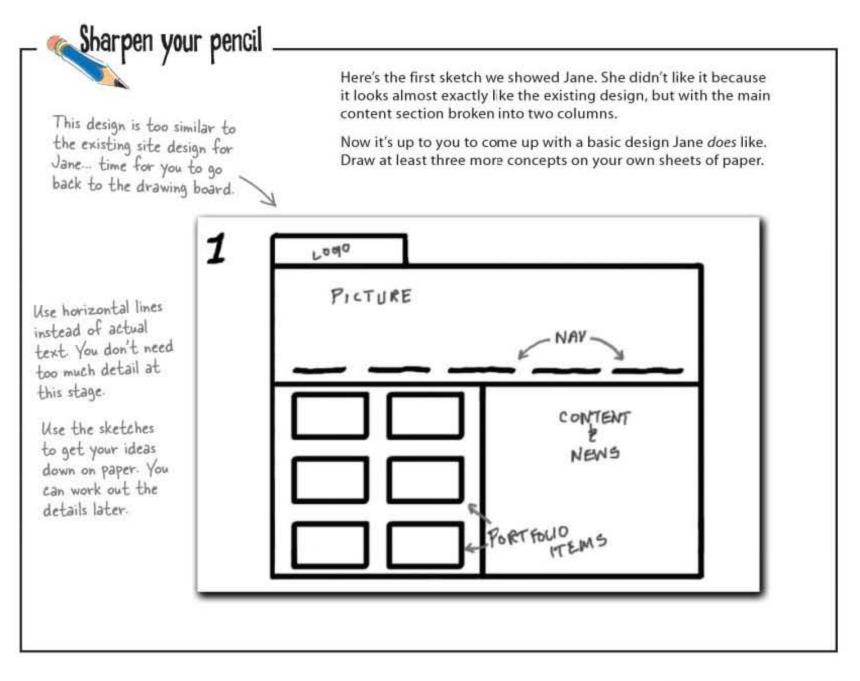
Having a clear idea of where you want to put the building blocks on screen saves valuable development time.

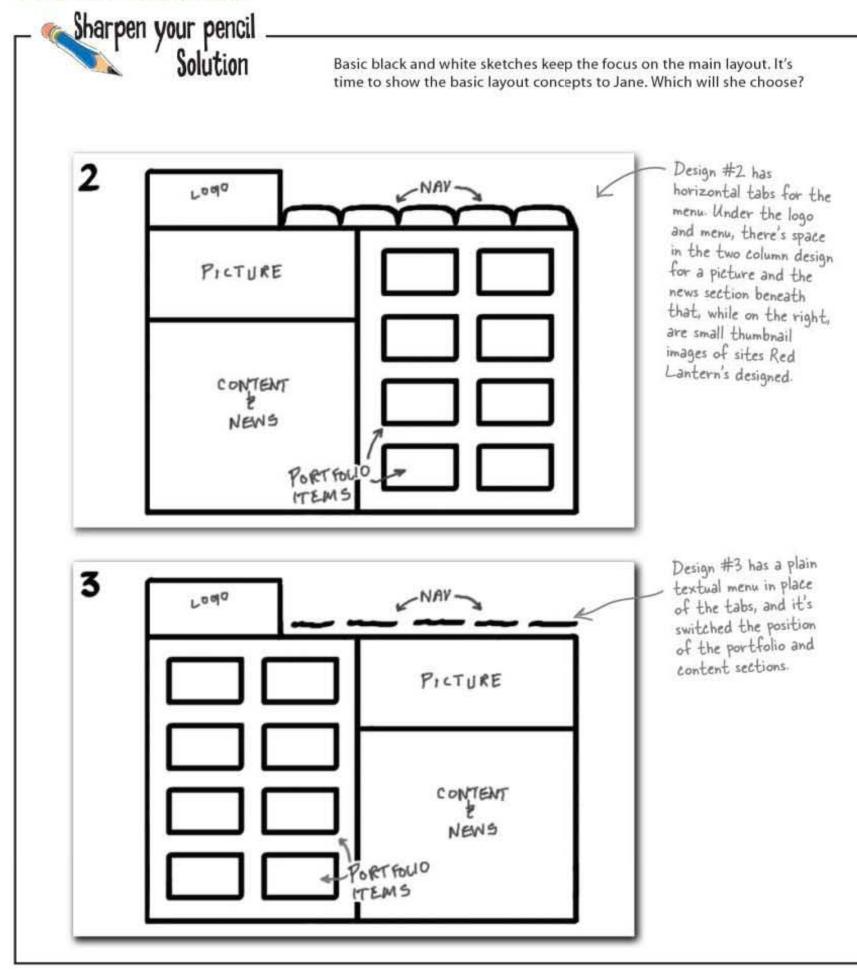
It's much quicker to sketch a few designs on paper and get Jane's reaction before you start than it is to waste time working up the code for a bunch of designs when she can only pick one...

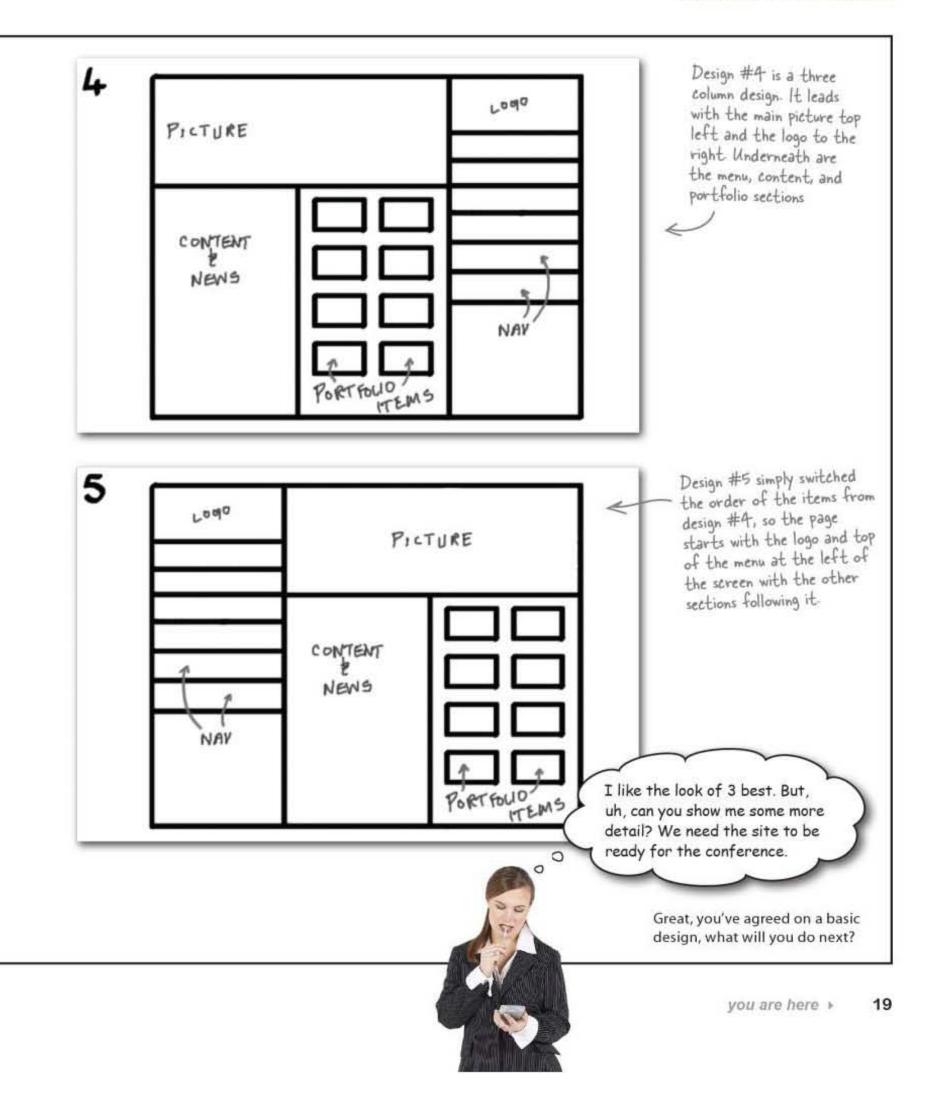
Sketches keep the focus on functionality

Your first sketches should be black and white and drawn on paper. That way, Jane will be completely focused on the basic layout of the design (instead of what color the background of the page is or how great her logo looks placed over that image or... you get the picture).

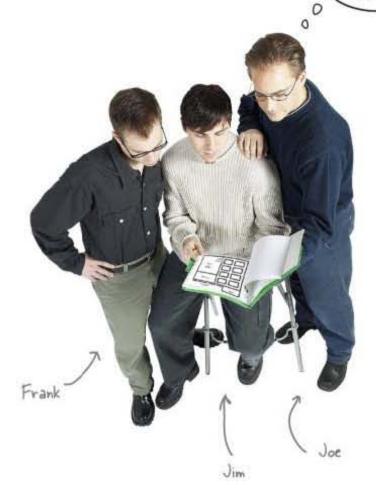
Your designs should show Jane some basic layouts with the content she's requested in various configurations on the page. The sketches should make Jane ask herself questions like: "Do I want a large image at the top of the page?", "How many columns do I want?", "Where should the menu go?", and so on.







So we've agreed on a basic layout with Jane, but what should our next step be? Firing up the ol' text editor, grabbing some sample content from Jane, and working up an XHTML storm?



Frank: Nope, We're going to stick to pen and paper for now. What do you think about adding some color to those sketches?

Jim: Why would I do that? Can't I just get going with the code and test different colors using CSS stylesheets?

Frank: Well, this way, you get a chance to see how colors interact with one another, how interface and layout elements play off one another once they're in color, how your navigation system looks in relation to the rest of the layout, and generally whether content's represented in the best way possible.

Joe: Wow. That sounds like a tall order for one little sketch. Couldn't we just have shown Jane a few color versions instead of going with the black and white sketches?

Frank: Clients can get distracted by color too early in the process. It's best to show them something that gives them an idea of the functionality of the site—

Joe:—before we start on the look and feel part of the design process. I get it. The sketches provide us with a painless way to catch any potential design problems before we start coding our design, and they become major obstacles.

Frank: There you go. But we're not just doing one sketch here, Joe.

Joe: No?

Frank:

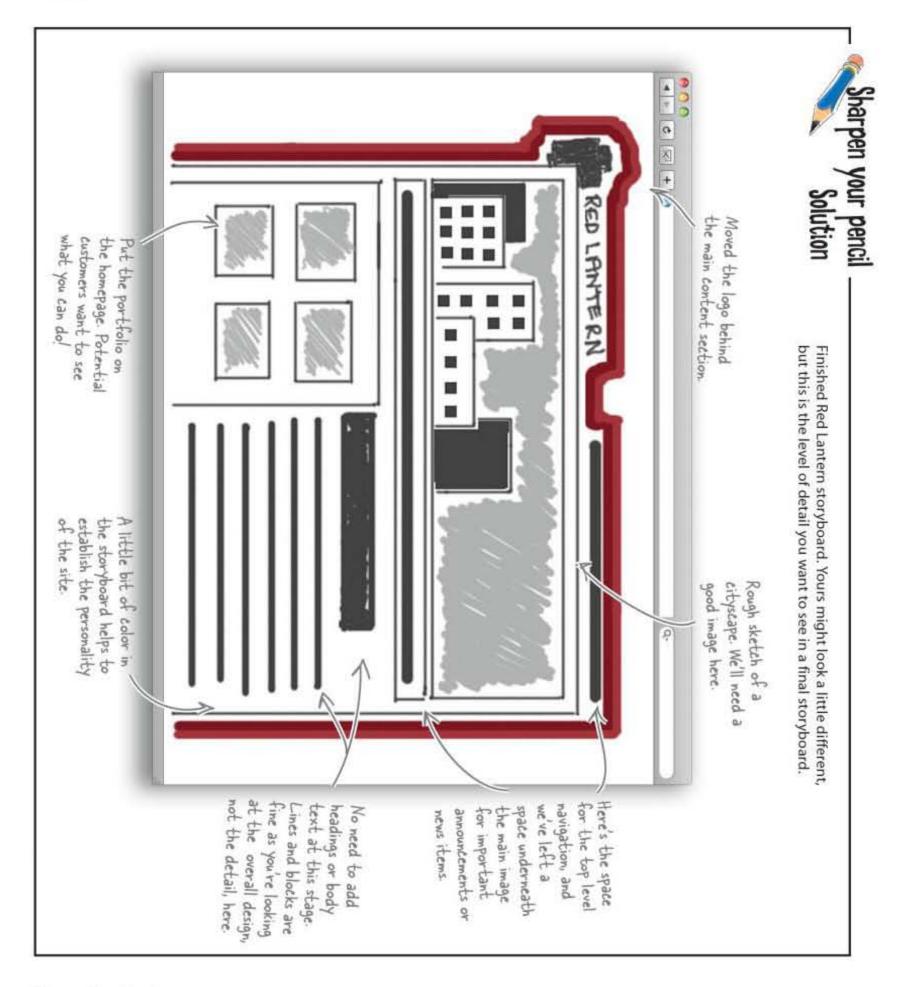
Jim:—No. We're going to do a ton, all in different colors, and show them all to Jane like we did with the first sketches, right?

Frank: Kinda. What we're actually doing is creating *storyboards* to test a few variations. We'll show Jane the best one or two.

Jim: Wait. What?

Frank: Yeah, these are like the storyboards—you know, that sequence of little sketches that look like a comic strip—the film industry uses to test out shots before rolling the cameras. We're doing the same thing. Here, let me show you a neat trick for creating good storyboards.

e wants for the Red Lantern Design site, ber and a pencil and go to work. Be as ith. If you've got some handy, use pencil	- Q-	Browser Template Here's a cool little trick to use when you're designing storyboards. Take a screenshot of a website-any will do. Open up your favorite image editing Program, and erase the actual website content.	Now you have a browser template to draw your storyboards in.
Now that you know what kind of layout Jane wants for the Red Lantern Design site, it's time to storyboard it. Take a sheet of paper and a pencil and go to work. Be as detailed as possible in what you come up with. If you've got some handy, use pencil crayons to add color to your storyboards.			
- Sharpen your pencil -	+ + × • •		





Tonight's talk: Pencil and Design Program discuss Storyboards

Pencil:

Design Program:

Yo Design Program, can you clear something up for me?

Well, I've gotten a little confused over here. Some people have started calling me "wireframe," but I thought that was a term that's used to describe code mockups... Sure. What's up?

Yeah. It can be confusing as people also use the term "wireframe" to refer to a code mockup that isn't totally fleshed out yet. But now isn't the time to get into code.

Code [eavesdropping]:

Hey! I heard that.

Pencil:

Sorry, buddy, but Design Program's right. You might think you're saving time by diving right in to HTML, but it could end up costing you in the long run. See, if your client (or you) doesn't like the design you came up with and wants to go in a completely different direction, you've just invested tons of time in to HTML (and probably CSS) that you're not going to use. It's a lot easier to file a storyboard away and start with a fresh sheet of paper.

I'm not so sure. I prefer not to get all hung up on detail. The whole point of storyboards is that they're a quick and flexible way to brainstorm ideas and get some designs down. Besides, why waste a ton of time slaving over every pixel's placement in several designs when the client's only going to pick one?

I guess if you're preparing a pitch for a potential client, it *might* be a good idea to come up with something more polished and formal. But I still think detailed hand-drawn storyboards should be your first stop when you start to design a new site.

Design Program:

—or a new file. *I'd* go the formal route right from the start. It saves a ton of time as you can copy details right out of the storyboards into the final design if they work.

I guess you might have kind of a point there, but are you really going to show your messy, smudged, coffee-stained, self to the client, Fencil? 0

The storyboards look absolutely wonderful. The design and layout for the site look great. But the conference is in two days... Can I see it on screen?

Now it's time to prototype the site in code

Building a prototype in code has some great advantages. First, even though your design might look great on paper, it might not work (technically speaking) when you code it up. The prototype will give you an opportunity to quickly fix anything (code-wise) before you invest too much time in building a polished finished product.

Also, if you're working with clients, a code prototype gives you something to show them and just like your storyboards, you can get useful feedback and make iterative changes.



0

What do you mean, iterative?

Iteration is a design methodology that lets you test, analyze, and refine prototypes of work in progress. At

each stage, you go through each of the steps in the design process— it's cyclical—until you get something you (and your client) are happy with.



Reapy Bake Go ahead and grab the files for the first code prototype from:

www.headfirstlabs.com/books/hfwd/ch01

then we'll give it a quick test drive to see how everything's looking.

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Time to check the site out in your browser. Once you've tested the site, show it to Jane to get some fast feedback on this iteration.





Here's the text Jane just sent over. Grab a stopwatch and set it for 15 seconds. Hit the Start button, and begin reading this text. When your time's up, write down what this text is about.

Red Lantern Design

MEMO

From: Jane

Subject: Site content

People are more conscious of design than ever before. Whatever the service or product, whatever the consumption or value, an intangible context surrounds all interactions. Successful businesses realize that they offer designed experiences, regardless of service or product, and invest the necessary resources to enhance both. People are not only more conscious of design, they are hungry for images, themes and experiences that satisfy them on many levels: aesthetic, pragmatic, ideological, cultural. They are hungry for "good" design. Design is about connecting. Working with our clients, we emphasize a thorough, deeply considerate research process with an emphasis on learning and listening. At the same time, we center the process on audiences and contexts. We design for real people, not demographic targets. We understand that real people are looking for something more and guide our clients, processes and designs in creating greater tangible value for all. Red Lantern designs and builds simple, usable, and attractive websites that are fast, readable, and accessible - all using web standards.

We specialize in: interface design - designing and building web interfaces and templates using web standards; web site redesign - if you are looking to update your site or move it into CSS; markup and css optimization - simplify markup and css to improve speed and make your site more structurally sound; consulting help with design strategy, css and markup suggestions, and seminars.

Don't ruin a good design with bad copy

All the awesome design work, storyboarding, and prototyping in the world is not going to save your site if you don't have any content (or if the way you present your content stinks). So how will you ensure your content's interesting?

Writing for the web is different than writing for regular print.

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Come on, Writing is writing. There's no reason to re-write some text, especially for a website...

Instead of reading your content from left to right, beginning to end, like a book, users scan the text for keywords and concepts—to give them an idea about the contents of the page.

When you combine this with the fact that users generally don't spend that much time on individual pages, you know you are going to have to write differently. The word of the day is **scannability**!

Emphasis (bold and

italic text) highlights

important terms for

the user

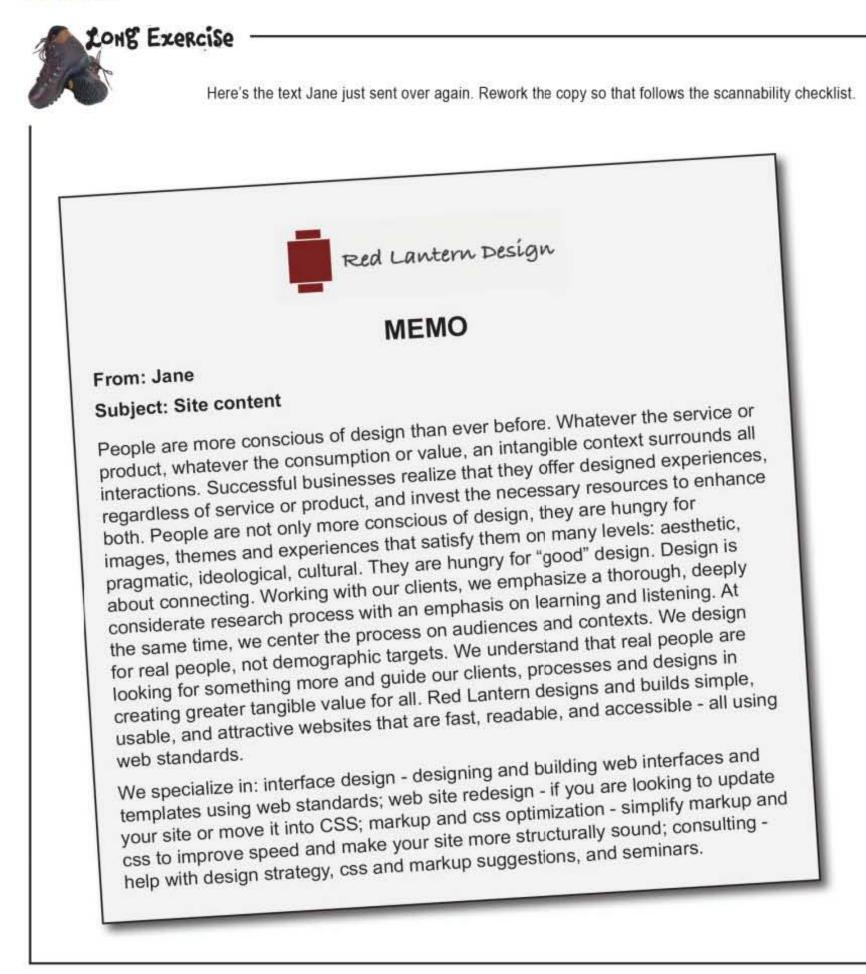
What makes text scannable?

There are several techniques you can use to make your text scannable. Short paragraphs, headings, bullet points, and clear meaning will all help users scan your content more easily.

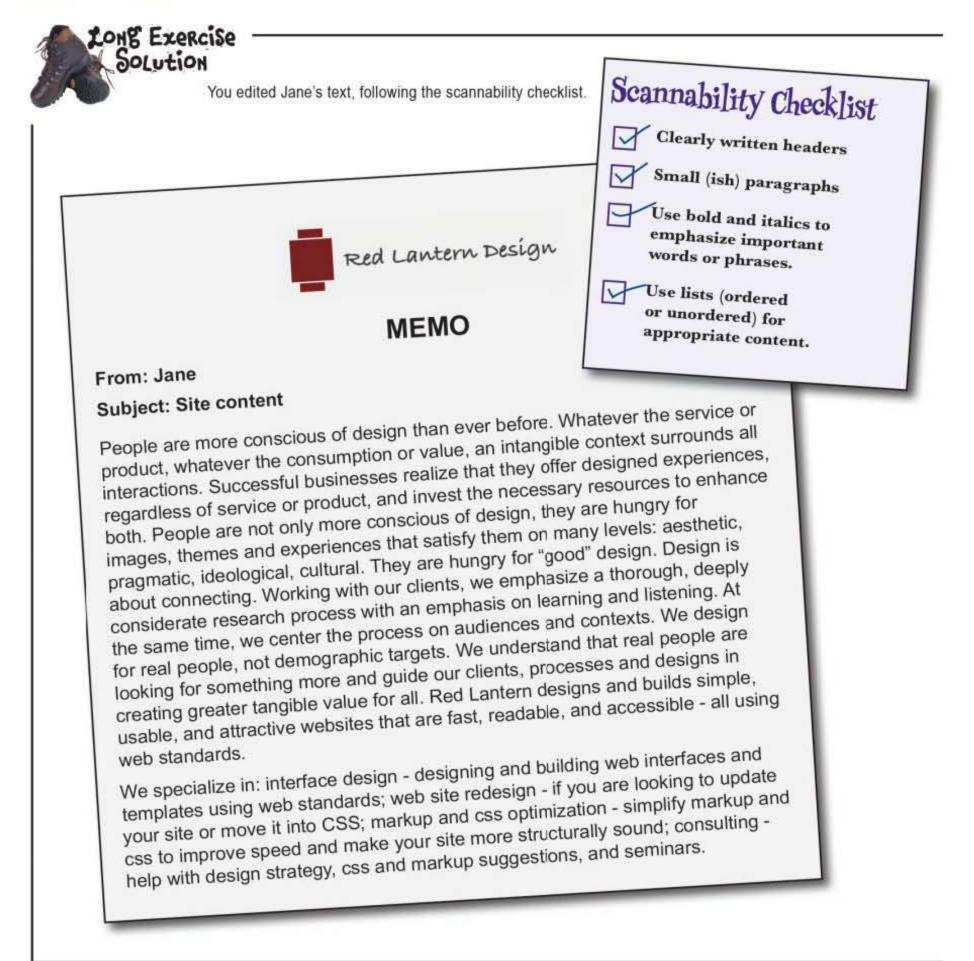
reader knows what they are getting into right off the bat. Wikijunior Big Cats/Cheetah - Wikibooks, collection 000 open-content textbr sks Clearly written 🔹 🛌 🐮 🔁 🕂 🌾 http://en.wikibooks.org/wiki/Wikijunior_Big_Cats/Cheetah R55 - Qheaders give the · Heb Wikijunior:Big Cats/Cheetah reader information · Cor From Wikibooks, the open-content textbooks collection about the whole of home · Browne Cheetahs are built for speed, with a whiplike spine. long legs, and a long tail that acts as a article and its · Featured Books rudder for sudden turns. They are the world's fastest land animal, able to sprint up to 70 miles · Recent changes per hour (110 kph) for short distances in pursuit of prey. They can go from 0 miles per hour to subsections. 70 miles per hour in just a few seconds. Because they bond well with humans, cheetahs user - One · Randum to be raised in captivity for catching wild game. They are also known as Hunting Leopards. community Where do cheetahs live? [edit] · Bullefet Broard · Community portai Today, most cheetahs are found in sub-Saharan Africa, · Reading room though a few are still seen in Iran. In the past, they used · Heb cleanup to be found throughout northern India and Iran. They prefer Two cheetahs togethe · Policy discussions and to live in semi-deserts, savannas, prairies, and thick votes brush. Because they rely upon speed to hunt, they avoid · Contact us dense forests. Conservation efforts are required in order to avoid the cheetah becoming an entry on the create a book endangered species list. · Colections help What do cheetahs look lke? [edit] search Cheetahs are medium-sized doglike spotted cats with long legs and Ge Search Places where cheetahs live are lean bodies. They have a white belly and a dark stripe that looks like a colored green tear on both sides of their face. Cheetahs also have round dark spots toolbox on their fur. Adult cheetahs weigh from 90 to 140 pounds (40-65 kg), · Search this book and are around 4 to 5 feet (112-135 cm) long. Cheetahs are built to be the best runners. Their long tail · What lews here provides them with balance. They have a big chest, a narrow waist, and powerful hind legs. They have a · Related changes small head and muzzle. large nostrils for increased oxygen intake, and small round ears. All of this makes · Special pages the cheetah very sleek and aerodynamic when it runs. * Prettable version · Permanent link What do they eat, and how do they catch their prey? * Download as PDF [edit] Download as Cheetahs mostly eat mammals like gazelles, impala, gru calves, and hares, which are all about the same a Deutsch · Français size as, or smaller than, an adult cheetah Short paragraphs * Haland Cheetahs stalk their prey until they are closer than about thirty meters from each other, and then give are easier to chase. The chase is usually over in less than a minute and if the cheetah doesn't catch its prev quickly it will often give up rather than waste energy. This is because cheetahs use a lot of energy when chasing Cheetahs used as hunters. read than huge Persia, early 1560s prey at such high speed. About half of the chases are successful. blocks of text Cheetahs must eat their catch quickly or risk losing their food to other stonger predators. Cheetahs will not fight with a larger animal over food because they can't risk an injury which would mean certain starvation (which are harder Cheetahs are well-adapted to living in and environments. In the Kalahan desert, they have been estimated to travel an average of 82 km to read and between drinks of water. They were seen getting their water from the blood or urine of their prey, or by eating tsama melons. comprehend on a [edit] Fun facts computer screen). See how much you know about the world's fastest land mammal * After a full-speed rush, a cheetah must rest at least 15 minutes before running again * Cheetahs do not roar, but they make a number of very un-catlike sounds, many of which resemble bird chings. = Cheetahs were called leopards before leopards were! Once the word for Cheetah was "leopard", and the word for leopard was simply "pard" Cheetahs were called leo-pards then as a mix between "leo" - tatin for iion, and "pard", then the name of leopards. Bullet points are * Apart from pumas, cheetahs are the only big cats that purr. a super-fast way . Many cheetah cubs are killed by a lack of food or their natural enemies, lions and hyenas. An old African legend says the tear stain marks on the cheetah's face are from the mother weeping for her lost cubs. to give facts to . Cheetahs do not usually eat the skin or bones of their prey your users ..

A brief introductory section provides

an overview of text. That way, the



You don't have to use them all, just the ones that work for your content.	Scannability Checklist Clearly written headers Small (ish) paragraphs Use bold and italics to emphasize important words or phrases. Use lists (ordered or unordered) for appropriate content.
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Your text might look a little different, but as long as you've used the techniques to make the text more scannable, your users will thank you.

- Welcome to the New Red Lantern Design

Headings orient the user within the text. Note, you won't need one at the top of the page, as the logo will serve as a header for the page

Red Lantern is a small web design and consulting firm specializing in standards-based web design and development. Our goal is to build simple, beautiful webpages that make your information easy to find and your users happy.

If you or your company are interested in working with us, please check out our portfolio of design and branding work and contact us with your project details. We look forward to hearing from you and making your presence on the web a little simpler and easier to find.

View our full portfolio

Contact Red Lantern

0 0

These links will be a short unordered list with the bullet points removed by our CSS.

That's a serious rework right there. Mine wasn't anywhere near as, uh, comprehensive. Won't Jane be mad at you for cutting out all her carefully crafted words?

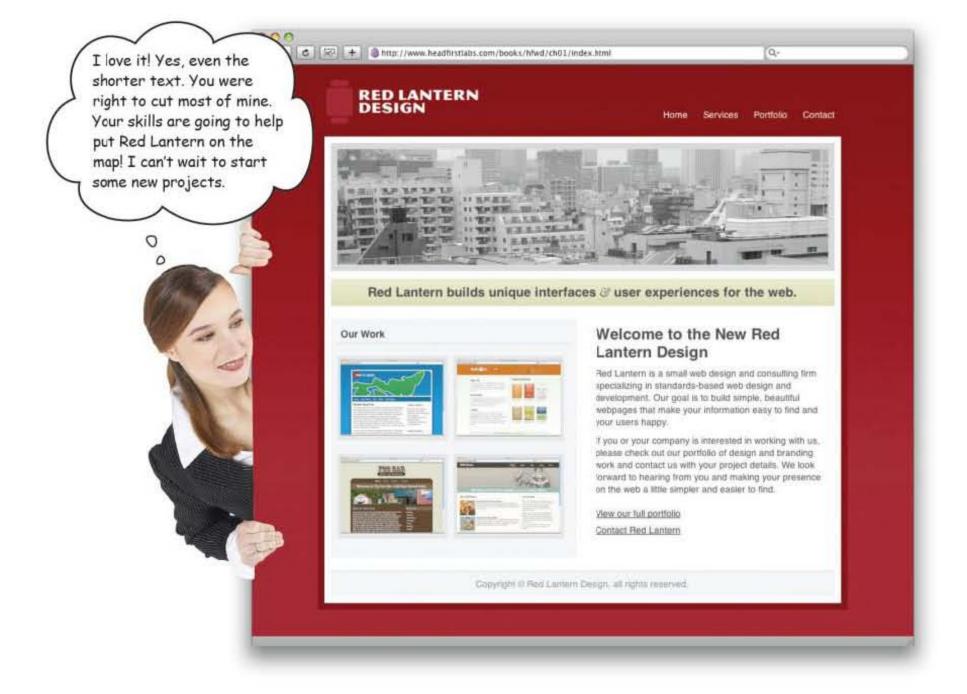
Sure, she could be. But this version is short, to the point, and a lot more compelling.

It tells users exactly what Red Lantern does, and what they can expect from working together. We edited out a ton of content—long words, sentences that you had to read three times to understand, and so on—that would have clouded this simple message.

Besides, worst case, we can compromise with Jane and put back in some of her text... carefully edited, of course!



Once you've edited your text so that it's more scannable, all you need to do is update the text in the code markup that you've already developed for Red Lantern, test it in your browser, and if you're happy with it, show it to Jane.



Web design is all about communication, and your USERS

So how do the two versions of Jane's site compare? Every site's ultimate aim is to communicate something to its users. If your website doesn't communicate what you want it to, your audience will go to another site looking for the experience or content that you couldn't give them.

This is known as **User-Centered Design**. When you build a website, you're building it for your users, not for you. You design for your user's strengths and weaknesses. You want to use every technique possible to bring users to your site, help them find what they're looking for, make sure they have a rewarding experience, and keep them coming back.

The process you followed in this chapter-

Pre-production using Information Architecture and storyboards to build a blueprint for your site so that you're as efficient and focused as possible when you go digital.

Navigation is based on your IA diagram. It's more than just linking pages together. Navigation helps your users find information.

Layout uses HTML and CSS to build the site's interface (which you already came up with—on paper—back in the pre-production phase).

Writing "fills" the design up with the—scannable—content that your visitors come to the site for.

—had just one aim: to produce a great-looking site that tells users all about Red Lantern Design.



The old design didn't communicate much at all to users ...

The new site had users at the center of the design process from the get go. As a result, it grabs the user's interest and tells them a compelling story.



Your Web Pesign Toolbox

Wow... 36 pages in and you've already managed to totally rework a pretty crummy looking website. Next chapter: we dig into pre-production in a lot deeper fashion.

BULLET POINTS

- When you design sites, you should practice user-centered design—creating sites that focus on meeting the needs of your users.
- A design process helps you structure a project so that you stay on task and get things done in an efficient manner.
- Most, if not all, web design projects have 4 components: pre-production, layout, navigation, and writing.
- Information Architecture is the process by which your website's content is broken into chunks and then organized hierarchically in relation to one another.
- Developing your site's IA is a two step process: organizing your site's information, and building an IA diagram.
- An IA diagram visually represents the hierarchical organization of sections and subsections of information in your site.

- Top level navigation usually links to those sections in your information architecture one tier below your home/main page.
- The design of your top level navigation depends on the overall design and layout.
- There are a handful of great models for designing top level navigation: horizontal tabs, horizontal buttons, vertical menu, vertical tabs.
- Storyboards are used to visualize your design and test basic layout concepts before you jump into code.
- Storyboards are a great way to catch potential design problems before you spend time coding your site.
- Writing for the web is different than writing for print.
- Web users scan webpages instead of reading them from beginning to end.
- Web content needs to be written so that it's scannable.

2 pre-production





Tired of butting heads with a picky client? Yeah, you know the type... every time you show them their latest crazy design idea, they've already moved on to another look... another color scheme... another entire web site. So how do you deal with *fickle clients* or those tricky *hard-to-get-right websites*? You start with paper, pencil, and a big fat pink eraser. In this chapter, you'll learn how to work smart before you dig into your HTML editor. Coming up with a **theme** and **visual metaphor** for your site, mocking up sketches in **pencil**, and using **storyboards** will turn you into a nimble, flexible web designer. So get out your sketchpad, and let's pre-produce!

Mark's Trip to Japan

Mark loves to travel. After college, he took a year off to backpack around Japan and experience everything the island nation had to offer–from sushi to samurai. Now that he's back, he wants to document his experience with a great looking website.

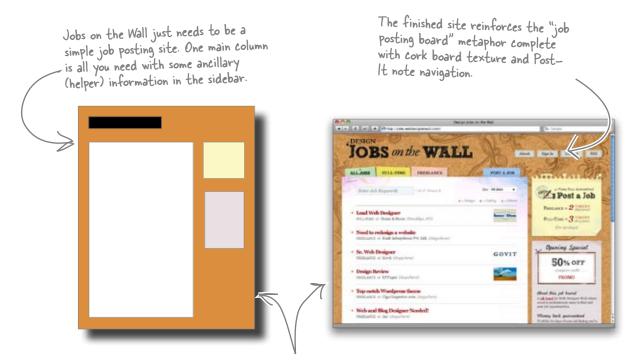




Think before you code

Pre-production is all about getting things right before you put down one line of XHTML. Its all about getting your site's design right on paper so that when you get to the point where you go to code, you know exactly what you are building, and you can be incredibly focused and efficient during development. Its also all about making sure that you work out any potential design problems before you invest a ton of time writing line after line of XHTML and CSS, only to find that you need to scrap everything and start again because your design has a critical problem.

Thinking about a visual metaphor



Visual metaphors start with a layout and color scheme that reinforces the content and topic of your site.

A clear visual metaphor helps reinforce your site's theme

A visual metaphor takes advantage of familiar visual elements (such as images, interface elements, icons, colors, or fonts) to reinforce the site's theme. Say, for example, you are creating a children's online community site geared towards ages 7 to 10. You might think about using bright and bold primary colors with cartoony interface elements and fonts. These design elements reinforce the subject matter of the site: kid oriented, fun, etc.

A visual metaphor can range from subtle (using colors that give the user an abstract feeling that the designer wants to associate with the site's theme) to direct (using graphics that tie right into the site's name or identity–like using graphics of rocket ships for a site called Rocket Ship Designs).



Cartoon penguins and comic-book style typography are definitely geared toward a younger audience.

A theme represents your site's content

The word **theme** is used to refer to all kinds of different things in the world of web design—which can be kind of confusing. In this case, a theme is your site's purpose and/or content. So, the theme of amazon.com is an online merchant that focuses mostly on books. The visual metaphor uses design elements (color, graphics, typography, etc.) that reinforce the site's theme.



Unlike IconBuffet, Silverback's visual metaphor is more apparent. They make the page look like a gorilla's surroundings, complete with jungle color scheme, leaves at the top of the page and an amazing logo/icon of a gorilla with a clipboard. Hence, "Gorilla Usability Testing."

Silverback is an application for performing user testing on websites. Because a Silverback is also a type of animal, the jungle and gorilla theme is used throughout.



Sharpen your pencil

Take a look at the screenshots below. Write down the site's theme and circle (**yes, draw in the book**) some of the design elements that are used in the site's visual metaphor. Remember, a site's theme is its content/purpose, while the visual metaphors are the design elements that are used to reinforce the theme.



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Take a look at the screenshots below. Write down the site's theme and circle (**yes, draw in the book**) some of the design elements that are used in the site's visual metaphor. Remember, a site's theme is its content/purpose, while the visual metaphors are the design elements that are used to reinforce the theme.

Bite marks used throughout the page remind you that _ this is a site about food.



Generous use of whitespace and a grid-based layout also help reinforce the newspaper theme. The colors are bright and "appetizing." Green, orange, red, peach-colors you'd want to eat. Serious Eats is a food website and blog. The logo and bite marks on the navigation tabs help reinforce the food theme throughout the page.



The Morning News is a news-based web magazine. Its multi-column, newspaper-style layout and simple design reinforce the news theme.

Brainstorming: The path to a visual metaphor

Developing a visual metaphor is all about brainstorming-spending some time really thinking about your content, audience, and what visual elements you want to see on the page. There is no right or wrong way to do a brainstorm, just remember one thing: don't discredit any idea or concept until after you are done **brainstorming.** Once you have all your ideas down, you can go The brainstorm list can back through later and eliminate any that obviously won't work. include design ideas, content considerations, site sections and even color and imagery. Write down мар of Japan everything that Food: Sushi, sashimi, fish, Japanese pancakes comes to your mind. Don't judge an idea HiroShima until the end. The Golden Palace Japanese flag Travel journal/blog Photo slideshow Food Dade RRA OWER Do a quick brainstorm for Mark's site and write down any design, content or visual element ideas you come up with. Remember, write down everything-you can filter out bad ideas later.

Pevelop a theme and visual metaphor for a project

Coming up with a theme and a visual metaphor can be tricky. Once you know what content you have to work with and have a few brainstorms under your belt, you need to start thinking about the best way to convey and display that content to the user. Color, layout, and element placement are all important factors when deciding the best way to reinforce a site's theme.



Chose some color palettes



Pick colors that work well with the content and support the theme of the site. Use services like http://kuler.adobe.com to build palettes and see how different colors will work together.

> The use of imagery, iconography and text • can help reinforce the site's theme by making the site "look like the content."

Use visual elements to reinforce the theme



Make layout decisions based on content. The more columns you have, the more space you have to fill. Also remember that whitespace is important. You don't have to fill every available pixel.

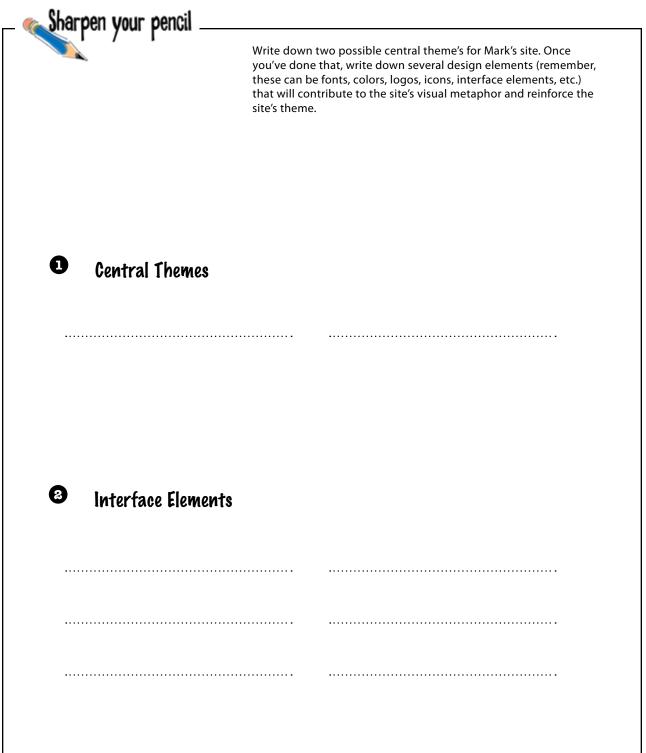
Pesign layouts based on content

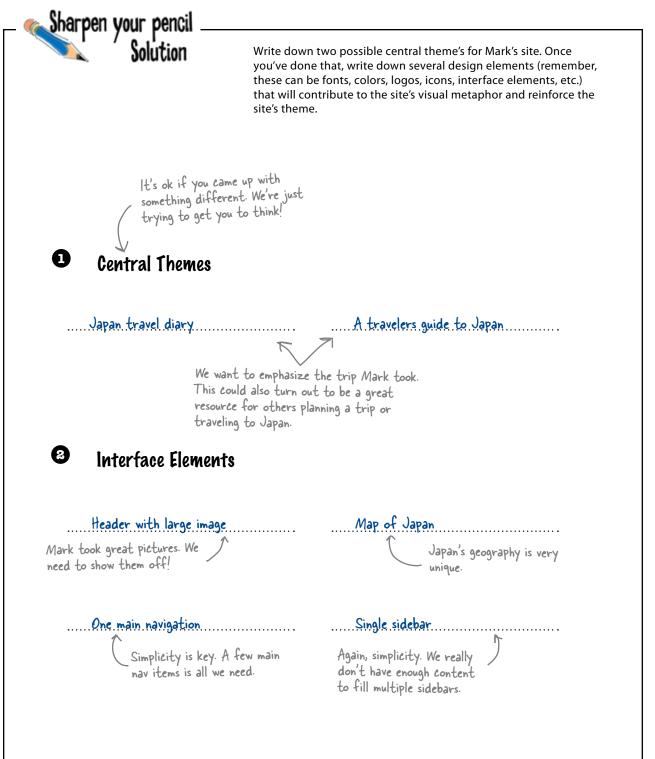
2

This is where your brainstorm will help the most. Use that list to decide what should go where and what ideas won't make the cut.

A visual metaphor leverages familiar visual elements (colors, fonts, icons, etc) to help reinforce a site's theme.

2



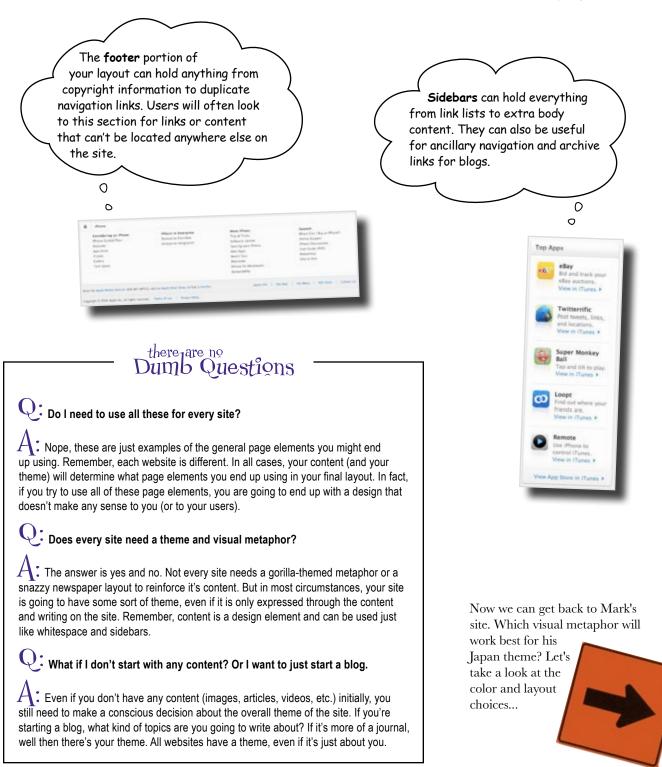


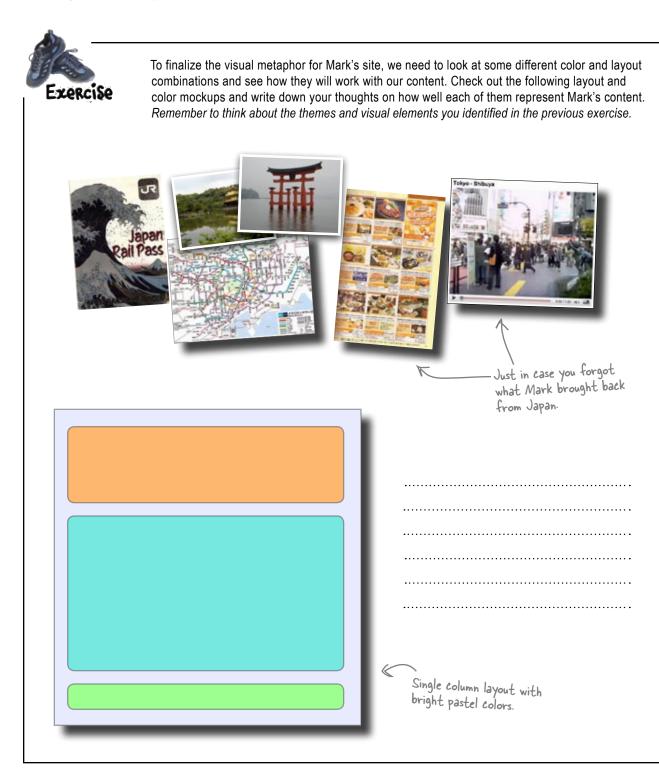
Page elements can shape your visual metaphor

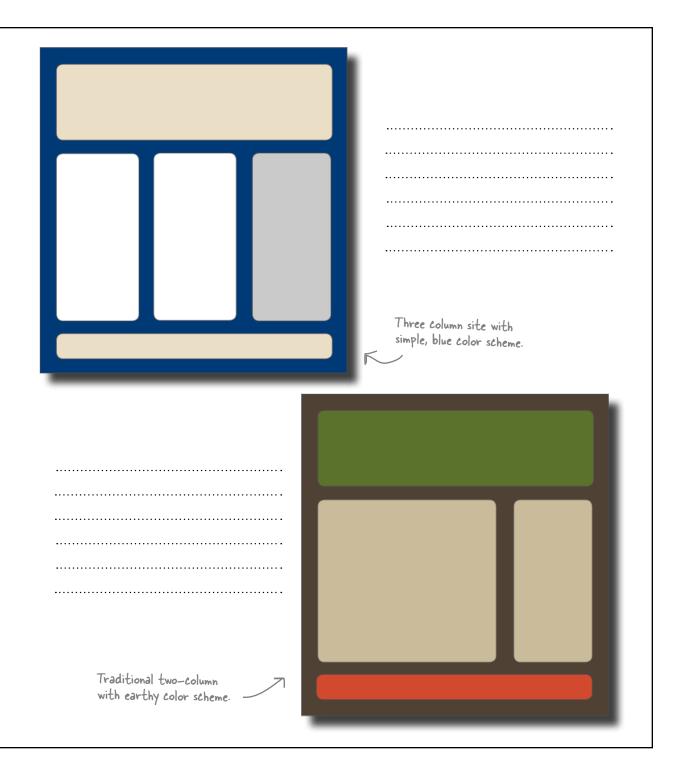
Once you have a general site theme and have started to think about what you want on your site, you need to consider where all that content is going to go. How you layout your site will affect the overall visual metaphor by dictating what can and can't appear on a given page. For example, if you only have a single column, it may be difficult to make your site "feel" like a newspaper or magazine. But add a few more columns and you can make that page mimic the gridlike, multi-column layouts of your typical daily paper.

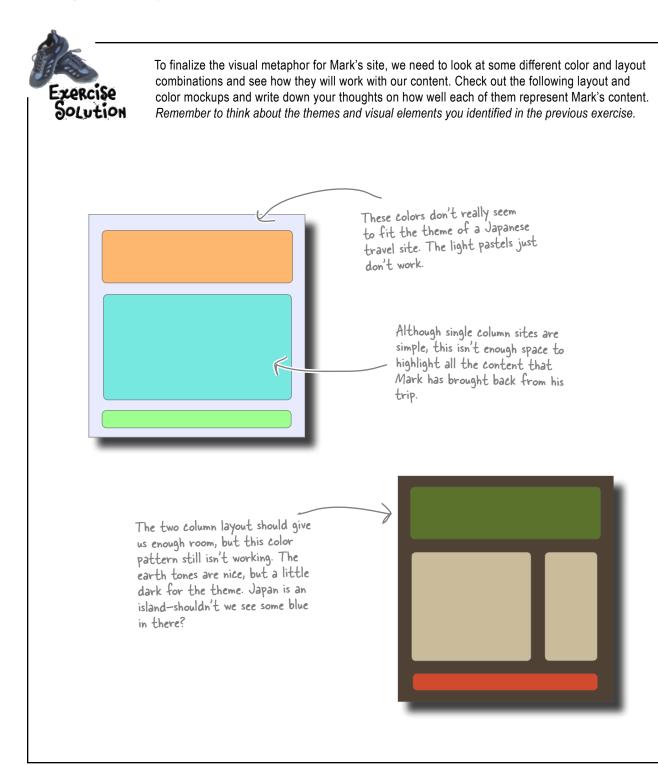


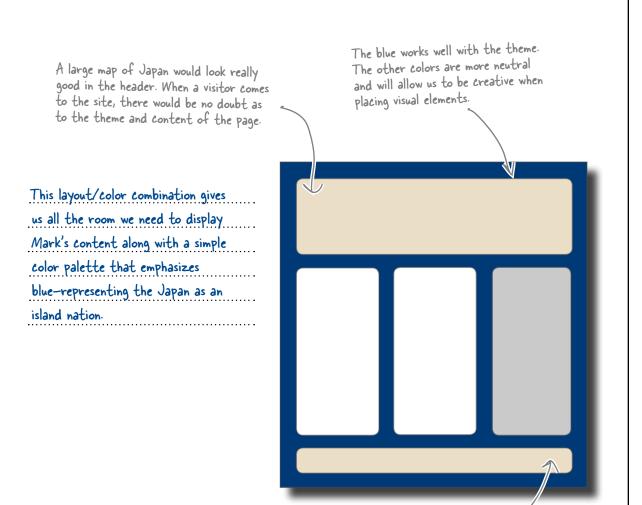












Three columns should work well for Mark. Not only is this an interesting look, it will allow him to present lots of information to the user.

Build a quick XHTML mock-up for Mark

Coming up with a theme and a visual metaphor can be tricky. Once you know what content you have to work with and have a general idea of what you (or your client) want to see, you need to start thinking about the best way to convey and display that content to the user.

XHTML Strict DOCTYPE

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
       <title>Mark in Japan</title>
       <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
       <link rel="stylesheet" href="screen.css" type="text/css" media="screen"</pre>
/>
                                           Link to the CSS file (it just needs to be in the same folder)
</head>
<body>
<div id="wrap">
       <div id="header">
              <h1>Mark in Japan</h1>
       </div>
       <div id="content-left">
             Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
Pellentesque quis nisl eget est viverra placerat. ...
       <div id="content-center">
              Nulla facilisi. Cras ac tellus fringilla tortor iaculis
rutrum. ...
                                                  Dummy text (as much
as you need)
       <div id="sidebar">
             Fusce diam. Pellentesque bibendum. Nulla viverra
vestibulum justo. Pellentesque pulvinar sapien.
                    Cras vestibulum elit id nibh hendrerit eleifend.
Pellentesque id ante. Sed volutpat blandit mi.
                    Morbi at tellus facilisis augue tempor pharetra.
Vestibulum porta condimentum dui.
                    Class aptent taciti sociosqu ad litora torquent per
conubia nostra, per inceptos himenaeos.
              </11>
       </div>
       <div id="footer">
              Copyright & copy; Mark in Japan, all rights reserved.
       </div>
</div>
</body>
</html>
```

And the CSS...

```
A CSS comment
/* screen.css */
body {
       margin: 0;
       background: #112b63;
       font-family: Georgia, serif;
       line-height: 1.2em;
}
h1, p, ul {
                               All these elements
       margin: 0;
                     1
                               share the same rules.
       padding: 10px;
}
ul {
       padding: 10px;
       list-style-type: none;
}
                                    Remove the bullets from the
ul li {
                                    unordered list.
       margin: 0 0 10px 0;
       padding: 0;
}
                              "margin: O auto" centers the whole site in the browser.
#wrap {
       margin: 0 auto;
       padding: 10px 20px 20px;
       width: 880px;
       background: #0b204c;
       border-top: 10px solid #091a3f;
#header {
       background: #ead9b8;
       height: 150px;
#content-left, #content-center {
       float: left;
                                              Both column <div>s and
       width: 280px;
                                              the sidebar use the "float:
       margin: 20px 20px 20px 0;
                                              left" declaration to create a
       background: #fff;
                                              three-column look.
}
#sidebar {
       float: left;
       width: 280px;
       margin: 20px 0 20px 0;
       background: #ccc;
}
#footer {
       clear: both;
       background: #ead9b8; Make sure the footer displays
                                below the columns.
}
```

Mark in Japa

The end result when you join the XHTML and CSS from the previous two pages. Still bare-bones and basi, but it will give Mark a good idea of where we are headed.

00

Mark in Japan

Hmmmmm...I don't know if I like the whole three column layout thing. I was hoping for something a little simpler. You know: header, footer, one sidebar, that sort of thing. I'd also like to see some detail. I really can't tell where you guys are going for here...

1 Þ C 🕅 + G

sit amet, ng elit. l eget est n tincidunt us. Duis nunc. Nullam quam ut magna.

Suspendisse sed purus eu ante mattis elementum. Vivamus bibendum lectus non nisl. Sed porta, elit congue rhoncus consectetuer, nulla risus faucibus metus, a interdum purus justo at ligula. Suspendisse potenti. Aenean purus mauris, aliquam et, varius et, vehicula vel, massa. In purus ipsum, auctor sit amet, tempus sed, tempus non, sem. Donec leo. Cras justo nunc, vulputate ut, tristique et, facilisis sit amet, arcu. Curabitur vel pede nec nibh condimentum consectetuer.

Nulla facilisi. Cras a tortor iaculis rutru lobortis pede. Nam a tincidunt pulvina aliquet magna, eu orci sit amet nulla Pellentesque ultri metus. Ut ac felis pharetra hendrer clit. Suspendisse arcu. Phasellus r Duis accumsan, sagittis, risus tu tristique nisi ip Nullam laoreet libero quis neq Donec accumse Maecenas cond Pellentesque o metus. Fusce pulvinar euisr egestas nulla, massa vestibu

Copyright © Mark in Japan, all rights reserved.

What? We spent all that time, and he doesn't like it? That's a lot of work for nothing!

0

ac tellus fringilla m. Sed hendrerit ultricics, mauris r, augue elit porttitor diam Quisque elit. cies. Aenean at mauris it. Nam sit amet pretium gravida utrum porta lectus. ligula id hendrerit rpis rutrum erat, ac sum non turpis. Suspendisse quis ue volutpat pharetra. in venenatis purus. limentum. consequat pede non

sonsequat pede nere sollicitudin, nunc nce nod, neque enim , eget congue felis ulum massa. Fusce diam. Pellentesque bibendum. Nulla viverra vestibulum justo. Pellentesque pulvinar sapien.

Q- Google

Cras vestibulum elit id nibh hendrerit eleifend. Pellentesque id ante. Sed volutpat blandit mi.

Morbi at tellus facilisis augue tempor pharetra. Vestibulum porta condimentum dui.

Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. 0

Ok, it's clear that Mark isn't really happy with our design, and we have to come up with something different. The problem is that I don't want to spend all this time producing more XHTML and CSS.



Joe: Is there anyway we can reuse some of the work we have already done?

Frank: I guess we could use some of the XHTML, but any new details are going to have to be done in CSS–and that won't be quick.

Joe: What about Photoshop? We could build the sites there and show him PDF versions of the designs. If he likes them, we already have a leg up on the visuals and imagery needed for the final sites.

Jim: Yeah, that could work–but it's still time-consuming and what if he doesn't like any of them? We're back to where we started. By the time we finish a handful of comps in Photoshop, we could have done them in XHTML and CSS. We need something we can get to Mark fast!

Frank: What if we just draw them on paper? We can sketch them on paper, add a little color, and send them to Mark to get his approval. If he doesn't like them, we can draw some more and will have wasted no time at all.

Jim: That's not a bad idea and because they're on paper, Mark could draw on them too, giving us a better idea of what he's looking for.

Joe: You know, this could work. Because we'll save time by not building sites that could just get shot down–we could deliver two or three different designs on paper and give Mark some nice choices.

Frank: Well it can't hurt to try. I don't want to waste anymore time building XHTML and CSS if we don't have to.

Jim: The drawings don't have to be really detailed. They just have to give Mark an idea of what the finished site is going to look like. I also don't think he's going to pitch a fit if we do something that will save time (and his money).

Use storyboards to develop ideas and save time without code

One of the most important things in pre-production is the storyboard (sometimes called concept art). Storyboards are used to visualize your design in its entirety. They give you a chance to see how colors interact with one another, how interface elements play off one another, how your navigational system looks, how your visual metaphor plays out, and whether content is represented in the best way possible.

Storyboards give you a painless way of catching any potential design problems before you get to the stage where you build your design in XHTML and they become major obstacles. Storyboards are also a great way to play with design ideas and visually brainstorm.





The storyboards aren't an exact version of the final site, but they are where many of the main design elements are considered.



You may even want to create your storyboards in a photocopy of an empty browser window. This is a great way to give your client the necessary context. Okay, even if we used storyboards, we'd still have gotten it wrong.
 How can we come up with a design
 Mark likes?



Don't design for yourself!

Remember, when you are designing for a client, it isn't about you—it's about the clients needs. And taking the client's needs into account obviously starts as early as storyboarding. Getting your client involved in the design process could be as simple as sitting down for a meeting, having them fill out a design survey or sending them early storyboard designs throughout the pre-production process. Not only will this allow you to build designs that your clients really like, they will be appreciate being involved in the process.

Mark's design thoughts

Its time to go back to the drawing board with Mark's design. However, this time we're going to do things right. We're going to go straight to the source (Mark) and find out exactly what he wants to see in his site's layout and design.



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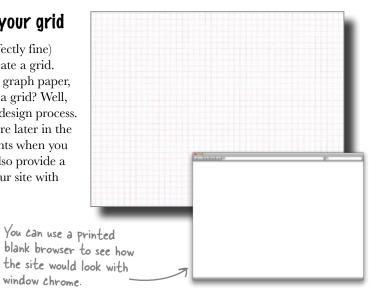
2

Creating a storyboard

Creating storyboards is pretty straightforward, and everyone has their own methods for creating designs on paper. However, there are a few things to consider when putting together your boards. Here are some tips for getting started:

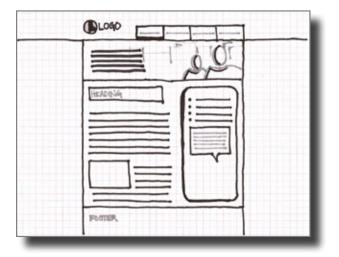
Find some paper and make your grid

Grab a piece of paper (8.5 x 11 is perfectly fine) and sketch out or fold the paper to create a grid. You might even want to use a piece of graph paper, which has the grid built right in. Why a grid? Well, grid's are amazingly important to the design process. A grid (which we'll talk about a lot more later in the book) provides a way to line up elements when you are creating your storyboard. Grids also provide a foundation that allow you to layout your site with solid order and visual logic.



Sketch out your design

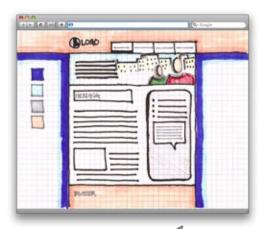
Here is where the rubber hits the road. Draw out your site's interface in as much or as little detail as your project needs. All of the site's text can be replaced by lines or a box with the words "text appears here." The point of the storyboard is not to see the actual content-it's to play with and finalize the layout.



Add color and finalize your storyboard

Its important that you add color to your storyboards—really important. So break out your pencil crayons and add color to your storyboard. Yes, we know, the colors you use in your storyboards are not going to be exactly what will appear in the final (digital) design. However, they will be close enough to see how colors play off of one another and make any changes if necessary. When you are finished with the colors, tie up any loose ends you have—and Voila! One supremely awesome storyboard!

@L040



Here is what the storyboard looks like - with browser chrome.

This is the point in the process where you need to show the client your work. Give them two, maybe three, options and let tell them to give you as much feedback as possible (even drawing on them if need be).



3

Sketch out two storyboards for Mark. Make sure that each meet his needs but are different enough to give him a choice.



Q: Can I use Photoshop or another image editing program to do my storyboards?

A: You can create your storyboards any way you want. The whole idea is to mock-up design ideas as quickly as possible. Photoshop will inevitably give you more control and detail but might take you longer to do. However, having digital versions of your designs, whether you create them in a program or scan your sketches into the computer, will allow you to quickly email ideas to your client for review. In the end, do what you're most comfortable and efficient with.

there are no Dumb Questions

Q: Why can't I add text to my storyboards?

A: Text (content) is not important during the storyboarding stage. Your main focus should be on large layout elements and possibly color schemes. Copy (text) will come later after you design your navigation and information architecture. For now, just put dummy text–sometimes called Lorem Ipsum text–or thick lines that represent text.

Q: What is the best way to add color?

A: If you're hand-drawing your boards, colored pencils work the best. They are cleaner and more detailed than markers and won't bleed through your paper. If Photoshop is more your style, then the sky is the limit.

Your Web Pesign Toolbox

You've got Chapter 2 under your belt, and now you know how to use storyboards to save you time before you code. For a complete list of tooltips in the book, see Appendix iii.



BULLET POINTS

- When you pre-produce a site, you are able to try out design ideas out on paper-thereby avoiding potential mistakes in coding which could cost time, effort, and possibly money.
- A Visual Metaphor leverages visual elements (images, icons, colors, or fonts) in order to unconsciously reinforce the site's subject matter.
- When applying a visual metaphor to your site, be subtle and don't overdo it.

Nice work, let's start coding Mark's site!

00

 Storyboards are hand drawn concept art storyboards that are used to visualize your design as a complete entity.

3 organizing your site

"So you take a left at the green water tower..."



A little shaky on your site navigation?

When it comes to the Web, **users are impatient**. They don't want to waste lots of time looking for the right button or wading through three levels of your JavaScript pull-down menus. That's why you've got to spend a lot of time getting your site's organization right... *before* you get into construction and design. Last chapter, you came up with a great theme and look for your site. In this chapter, you'll really amp things up with a **clear organization**. By the time you're done, you'll have a site that *tells your users where to go* and keeps them from ever getting lost again.



Fit your content into your layout

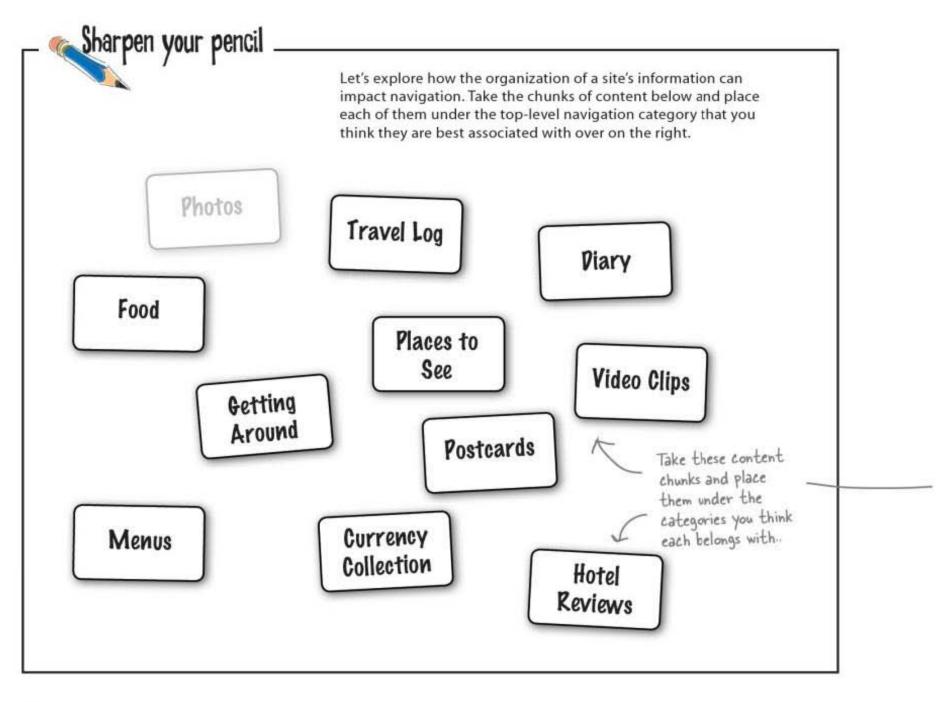
On his voyages throughout Japan, Mark collected a lot of material. He took pictures, kept a daily journal, collected items (maps, travel booklets, trinkets, etc.), and even managed to take some video. The big question is, *how should all of this content be organized into his new design?*

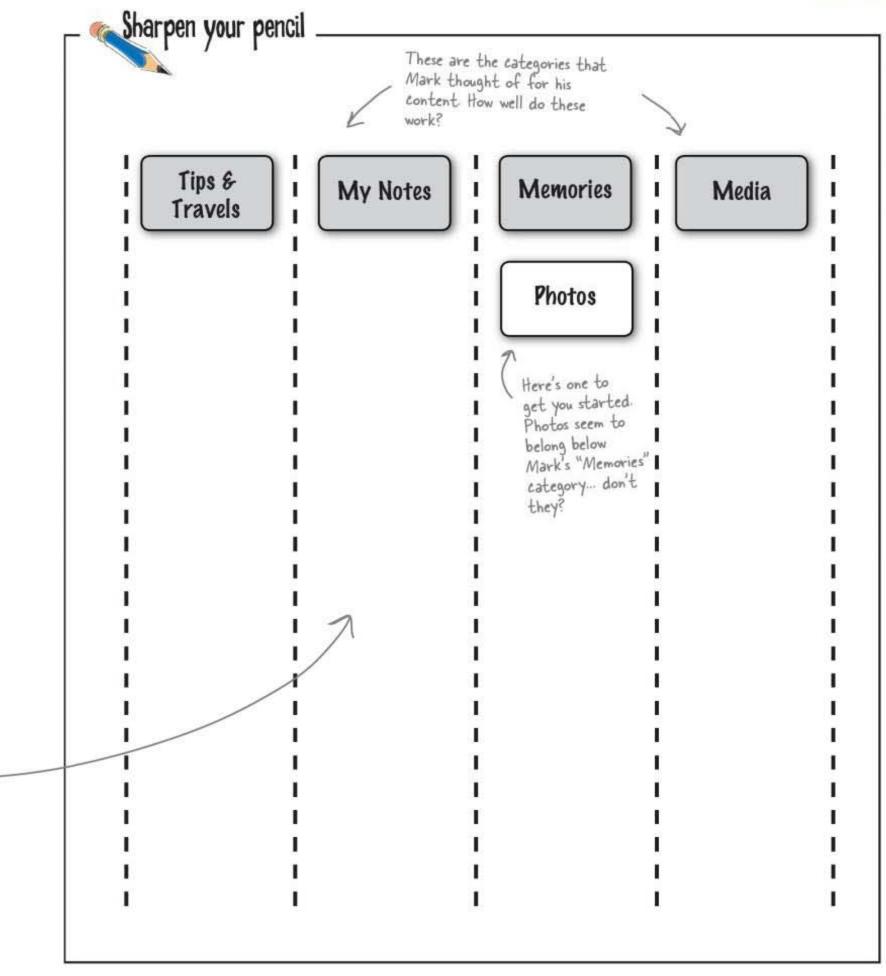


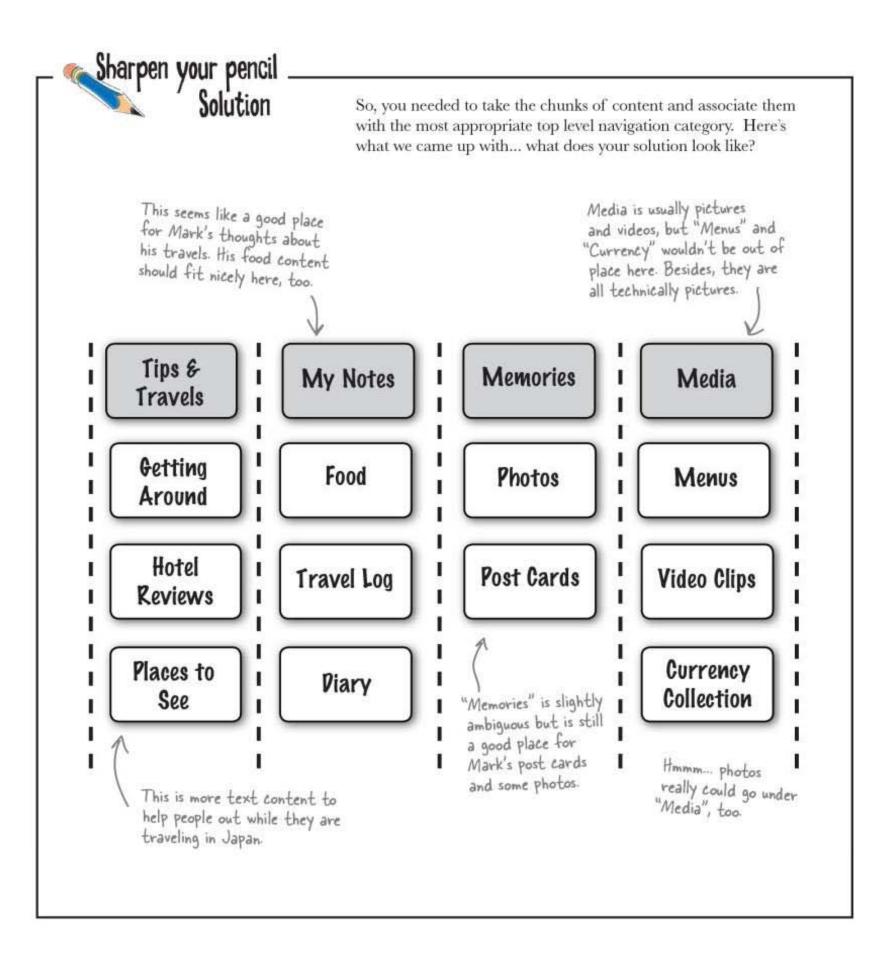
Organize your site's information

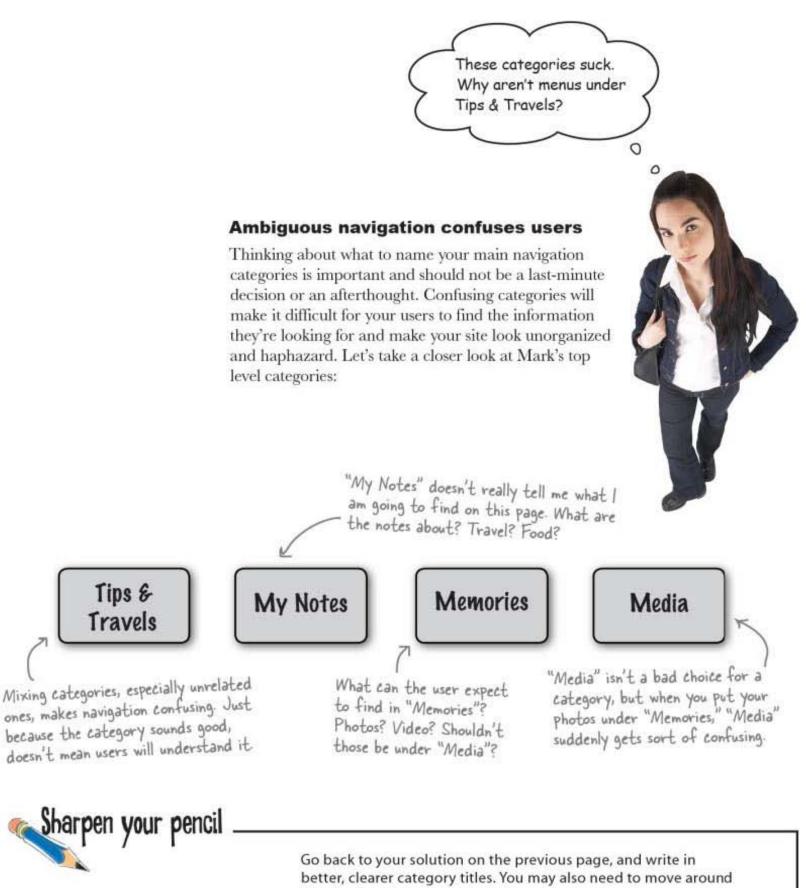
A website is all about **communicating information**. No matter how good your design is or how cutting edge your layout is, if your site doesn't speak to your audience, it won't be nearly as successful as a site that says something, and says that something clearly.

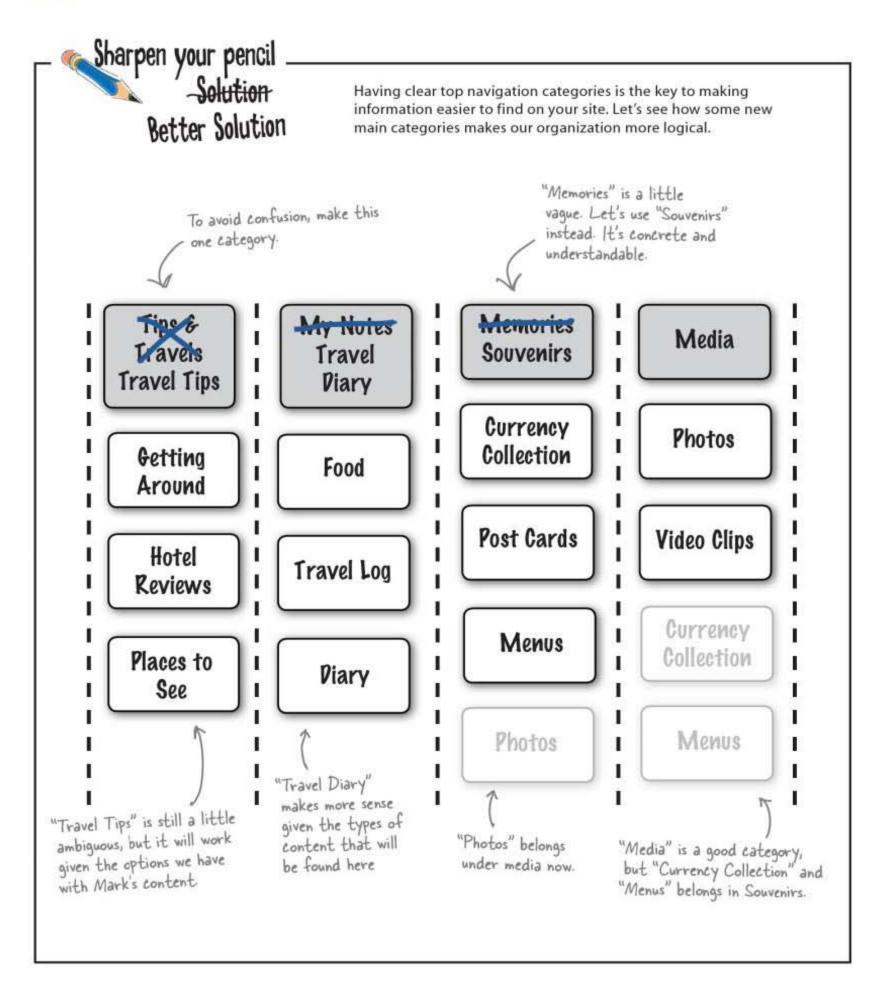
A huge part of how well your website communicates its content has to do with how its information is organized. If a site's content isn't organized well, all sorts of bad things can happen–like confused users leaving your site for someone else's. Organizing your site's information well (and logically) is the difference between good and bad navigation– which means the difference between your users finding what they want quickly and easily and your users being really confused.











bumb Questions

Q: How long is too long for a category name?

A: In a perfect world you'd be able to find one word that describes all the content a user would find under a specific category. Unfortunately, that's not always the case. A good rule of thumb is to keep your category names as short as possible (one to two words), free of jargon, and as close to describing the content as possible.

Q: But I know what the link means, isn't that all that matters?

A: Actually, that doesn't matter at all. You aren't building a site for yourself; you're building a site for your users. Your number one goal is to make information on your site accessible and easy to find by your users. If visitors can't find what they came for, it makes no difference if you can.

Navigation headings should always be short, concise and reflect (as closely as possible) the content that a visitor will find when they click the link.

Q: How can I tell if a category is ambiguous?

A: Sometimes spotting category ambiguity is as easy as asking yourself if a user or visitor would understand what your categories mean without any background on the content or topic of your site. In some cases, it's not that easy, and you really have to step back and think about your content as a whole. If you have information on your site that loosely fits the theme or might be slightly extraneous, your category names will reflect that, and they won't immediately click with the user. This is why thinking hard about your content *before* you choose your categories is so critical.

Q: What if I have content that fits in two different categories?

A: Most likely, content fits into different categories because you haven't done a good job defining those categories. Content should only appear in one place on your site. Come up with five or six good categories, each of which is different enough that there's not a lot of overlap. If you're still having trouble, you may want to try a card sort.

Q: What's a card sort?

A: Good question. Keep reading...

You know, I'm not sure this new content organization works. It still feels disorganized to me.



Take your time with organizing your site. Navigation is built on your organization... and nobody likes confusing navigation options. **Jim:** I actually think the categories are ok. This is what Mark gave us, shouldn't we just go with it?

Joe: The organization isn't the best, but I think users will be able to find their way around. The headings are still a little confusing but they're an improvement over the originals, and I don't think they'll get any better. Plus, I want to start coding. We shouldn't be spending so much time on something as trivial as categorization for a travel site.

Frank: But this is the foundation of our navigation!

Joe: What are you talking about?

Frank: Our navigation... isn't most site navigation just putting links and sub-pages to good categories?

Jim: I hadn't thought about it like that.

Joe: Well, what else can we do? We've already done one revision of the categories—or navigation, I guess—and like I said, it's not going to get much better.

Frank: I think we're too far into things to really know what problems we might have.

Jim: You mean, start from scratch?

Joe: Oh brother. We'll just end up right where we are now!

Frank: What if we don't just start over. What if we approach things in a completely different way?

Jim: Like how?

Frank: Let's build up an information architecture, not just a bunch of categories.

Joe: A what?

Frank: Information architecture. Here, let me show you ...

The first "layer" of information

Keep your site organized with Information Architecture (IA)

Information architecture is just a way to organize the content you already have into groups that are meaningful and logical both for you and for your users. Sometimes thinking about navigation, or categories, gets you too far into how a site is going to look.

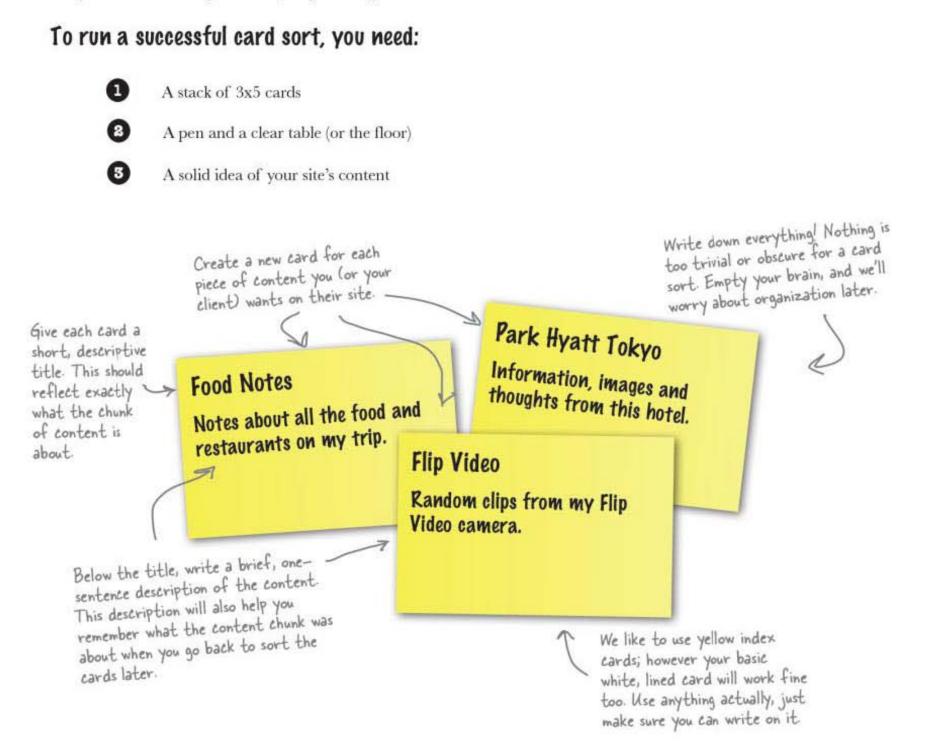
Information architecture is all about taking a step back, and really looking at what sort of content you've got... how does it all fit together? Take a look at this partial IA for a popular paint manufacturer, Krylon:



IA-The card sorting way

How exactly do you organize your site's information? Well, there are lots of ways. One of the best is something called card sorting.

Card sorting is a cheap and easy way to impose a structure on your site's information. It's also a great way to see how other people (maybe even your potential users) organize your site's information. Card sorting also takes a step back from XHTML or even the Web in general, and lets you think about organization, not just navigation.





Head First: Thanks for being with us, Card Sort. Glad to have you. You talk a lot about helping people organize their information, why have you been so successful?

Card Sort: Well, first of all, I think the main reason I help so much is that I just get people to write down all their ideas–good and bad. This way, nothing is left behind, and you don't end up in a situation where you're trying to squeeze content in at the last minute. Second, having the ability to physically move the cards around helps you visualize different scenarios for your content.

Head First: Is moving things around really that important? Seems like it might be a little trivial.

Card Sort: Not at all. It's probably the most valuable attribute of a card sort. It takes no time at all to completely rethink your content and navigation. Plus, you can have other people do the sort, too, and compare their arrangement to yours.

Head First: Wow, I never thought about that! Do you always have someone else do a sort?

Card Sort: Most of the time. It really helps to have a second opinion on things. Usually, having someone else perform the card sort leads to a content layout that you never would have thought of on your own.

Head First: Very cool. If I could, I'd like to go back to the cards. What exactly do people put on your index cards? Is it just random ideas, or is there some type of template you follow?

Card Sort: Well, I wouldn't go as far as saying they're just random ideas. You need to think of my index cards as content chunks-bits of information you want on your site. For example, if someone was building a personal site, their cards might include things like: "jobs," "hobbies," "family pictures," and "vacation." The cards can also be more detailed with terms like: "soccer," "Disney World photos," and "Grandparents."

Head First: So the cards can be specific or more general?

Card Sort: Yeah, because some may end up as category headings and some may end up as individual content chunks. The main goal is to get every conceivable content idea out of your head and onto the cards.

Head First: Ok, this is making more sense now. One last question about your cards. Are the descriptions really necessary?

Card Sort: Not always, but they're good to have– especially if you have lots of cards. You don't want to run into a situation where you're trying to remember what you meant when you wrote down a content chunk. More of the *getting your ideas down on paper* methodology.

Head First: That's great advice. Well, we're just about out of time. Thanks for talking to us today, Card Sort.

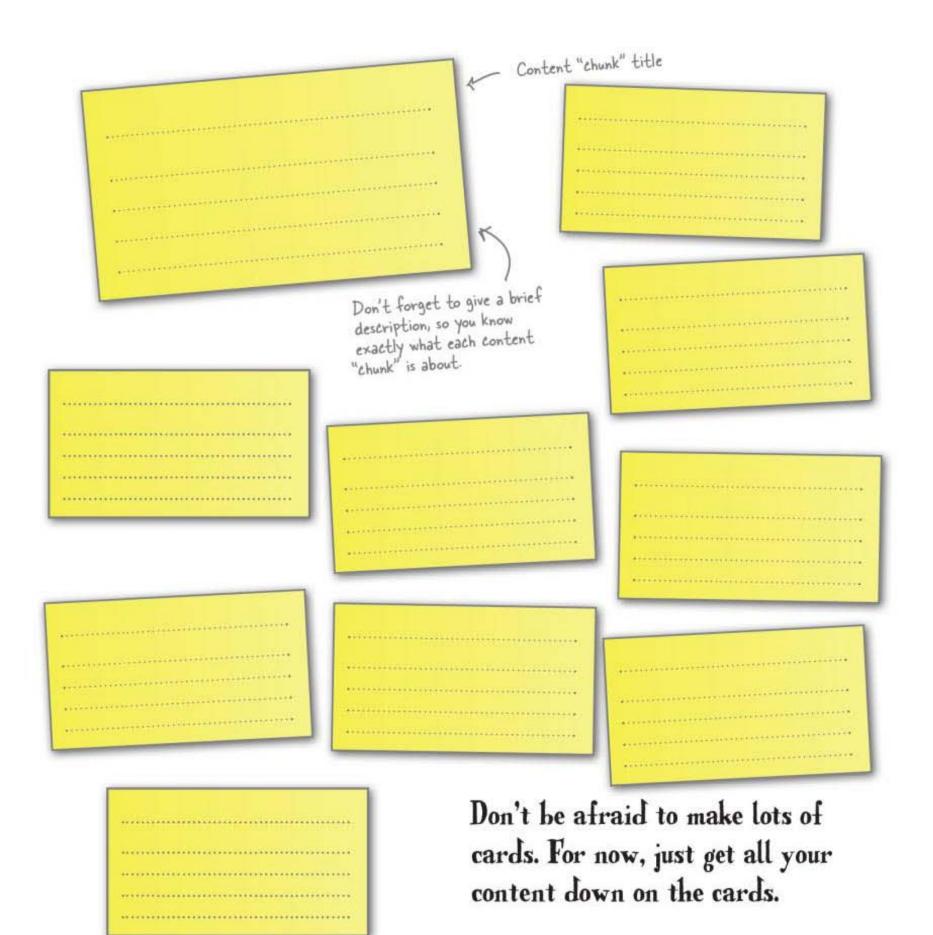
Card Sort: No problem, thanks for having me.

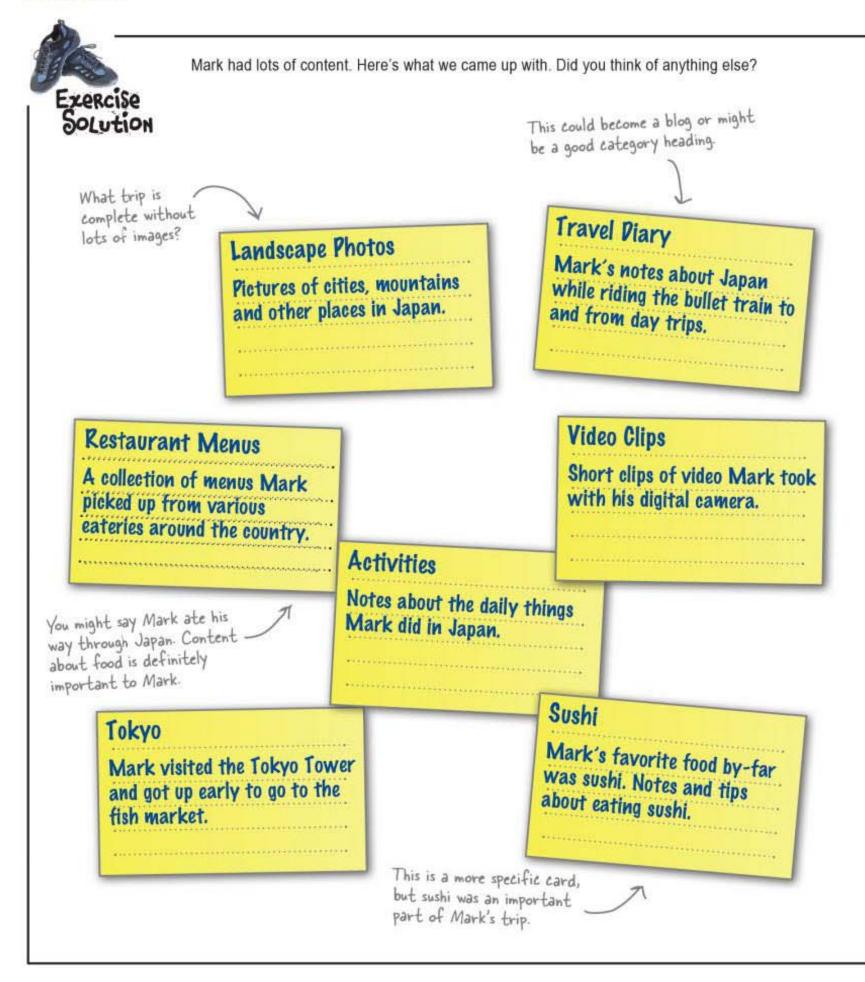
Its now time to do a card sort based on Mark's content. On each of the cards, write down a single chunk of information and a (very) brief description. Try to be as precise as possible. After you've filled out a card, set it aside-we'll come back to these cards in a bit. Continue doing this until you've got all of the possible content from Mark's site written down on the cards. You may need more cards than we provided, so use your own index cards if you need to

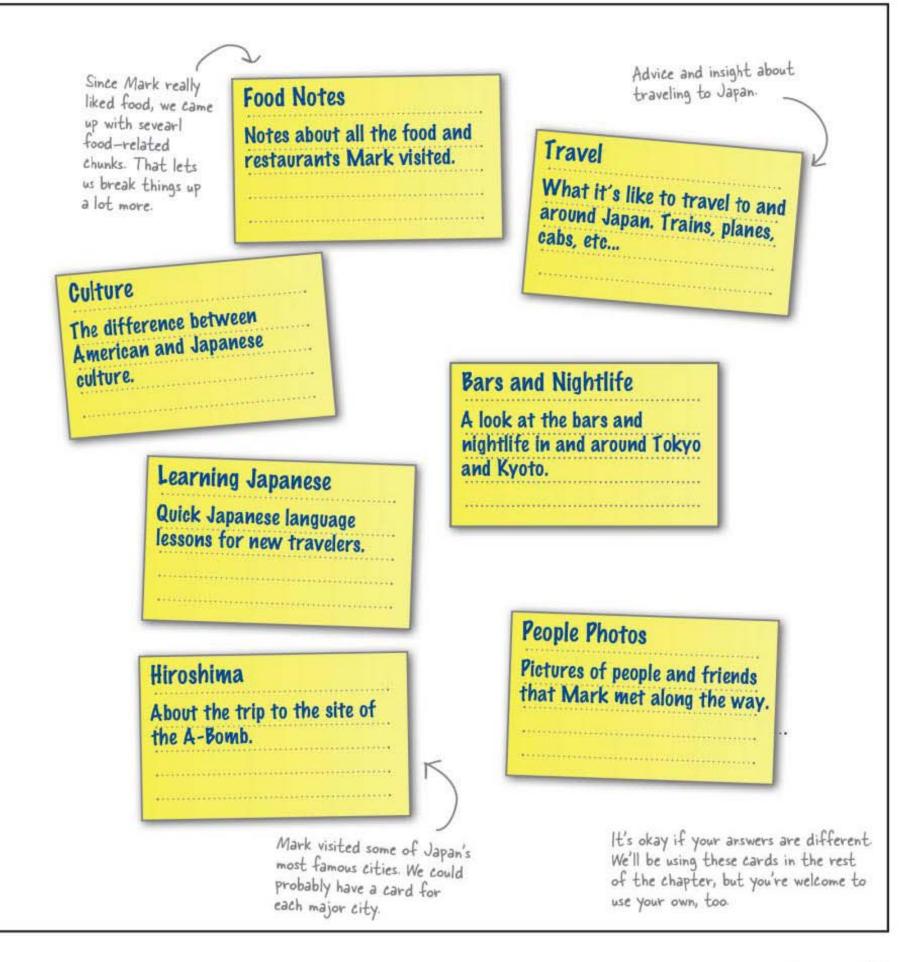
Mark learned a lot about Japanese culture and also compiled a list of travel advice for others planing a trip to the country. Tokyo - Shibuya Dal 0.00/120 444 Mark took video with his flip camera and lots of pictures Mark bought a rail pass and Food was on Mark's mind everywhere he went most of his trip. He brought traveled all over Japan. He back menus and took lots of visited Tokyo, Hiroshima, Hikone,

notes about what he ate.

Kyoto and Yokohama.



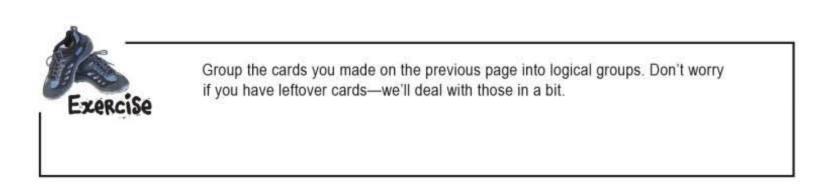




Sort your cards into related stacks

Once you've finished filling out your cards, you need to sort them into groups. The cards in each group should obviously be related—and their grouping should make sense to you. Here's a little hint—**these groups will eventually become sections** within Mark's website.

	ト
Culture	
The difference betw American and Japa	nese
culture.	Learning Japanese
	Quick Japanese language lessons for new travelers.



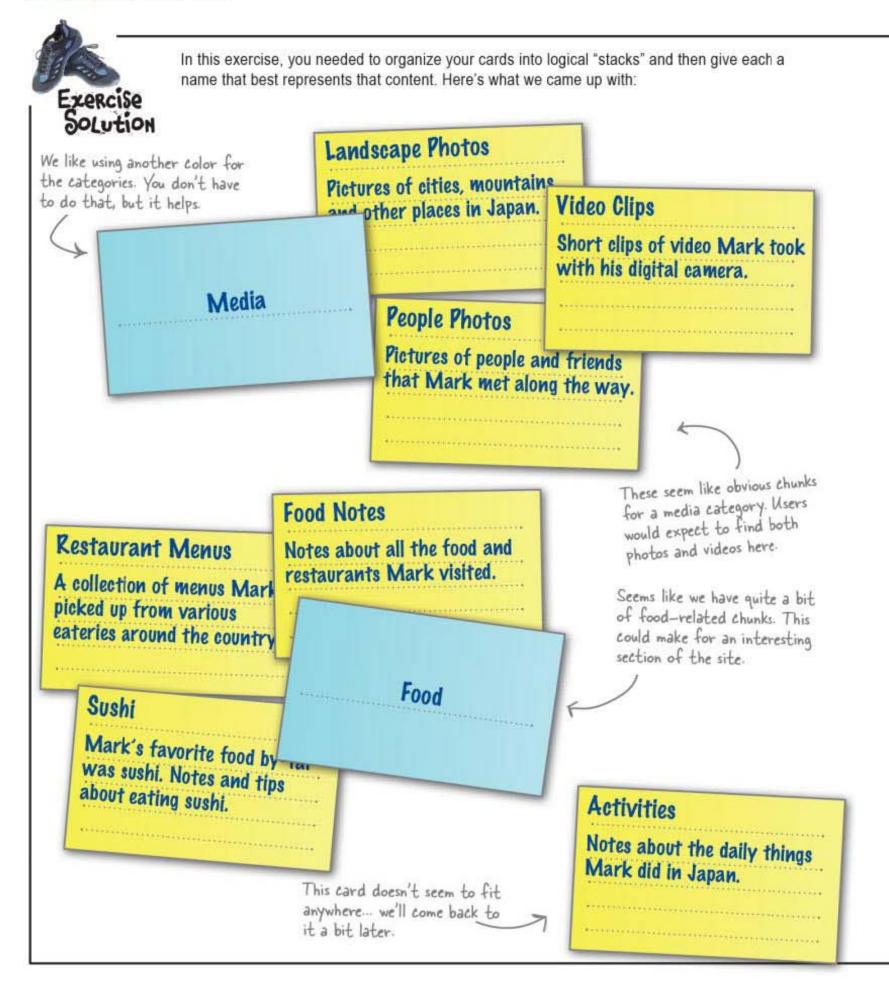
Give your stacks names that are short and descriptive

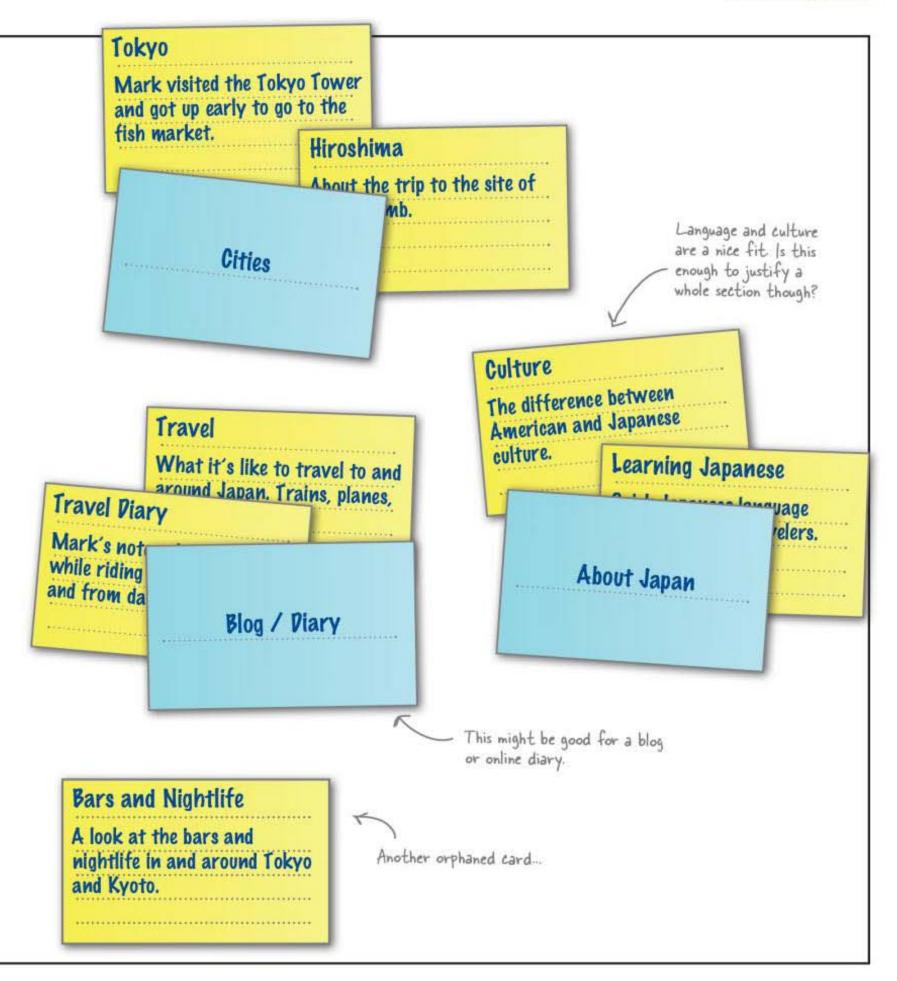
After you've created your groups, it's time to give each group a name. The name has to be short and descriptive. These descriptions may end up becoming part of your main navigation, so keep them focused on the content, but broad enough to contain the content they describe.

Since you've already spent some time digging into Mark's content, try and come up with category headings that are different (and better) that what you came up with earlier in the chapter, back on page 76.

Exercise	Look at the stacks you made in the previous exercise and come up with short, descriptive titles for each stack. You can use an existing card or make a new one for the description. Write you new cateegory names in the spaces below.		

Take a picture of your card sort, and how you've organized it. You can reference the picture later, and still move your cards around into different arrangements.





Hold on a second. I've got a bunch of cards that don't fit into my groups. What am I supposed to do with these?

00

Orphaned cards force you to ask yourself: "Is this content really necessary?"

In some cases, you'll find that cards don't fit anywhere—these are called **orphaned cards**. You might be wondering whether you've done something wrong, but don't worry. These cards are usually a sign that you are doing something right!

Orphaned cards come in two flavors. You can have orphaned cards that didn't fit into another pile—however, you think that the content is important enough to your site that you create a new group with your single orphaned card. Then, there are cards that don't fit into another pile but are so different from the other cards that you couldn't come up with a group if you tried (let's call these the *really* orphaned cards). Including orphaned content that doesn't fit into your site's information architecture *always* results in confusion for your user.

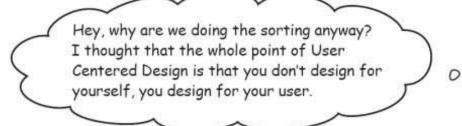
What if, for example, the produce section at your local grocery store had a pile of toasters, a large display of beef jerky, and an entire wall of deodorant? Shoppers would get amazingly confused. We interact with the world around us based on the **predictability** of things. There is no reason whatsoever for deodorant (or toasters and beef jerky) to go in the produce section. The same holds true for the organization of a web site's information. If random content appears in a section of the site where we never assumed it would be, we'll be confused-and our experience with the site will be negatively impacted.

So, what do you do with orphaned cards? You've got two choices. First, you could change the content in such a way that it fits into another one of your groups. However, more often than not, that strategy just isn't going to work. The other alternative is simply to recognize the fact that the content doesn't fit into your website and toss it out.

What d you think about these orphaned cards? Important? Not right for Mark's site? Too vague? Too specific?

Activities Notes about the daily t Mark did in Japan.

Bars and Nightlife A look at the bars and nightlife in and around Tokyo and Kyoto.



Friends don't let friends sort alone

Up until now, you've done the card sort all by your lonesome. But doing a card sort by yourself is **not** the (only) way to do things. Why? Well there's one really good reason. You aren't designing for yourself-you're designing for your audience! And if you aren't designing for yourself, why would you do a card sort by yourself?

Ideally, you want to run the exact same card sort with the exact same cards—but have someone else sort the cards. Try to choose someone from your target audience. If, for some reason, you can't find someone from your target audience, enlist someone else to help. At the very least, they will give you a second opinion on your site's information structure.

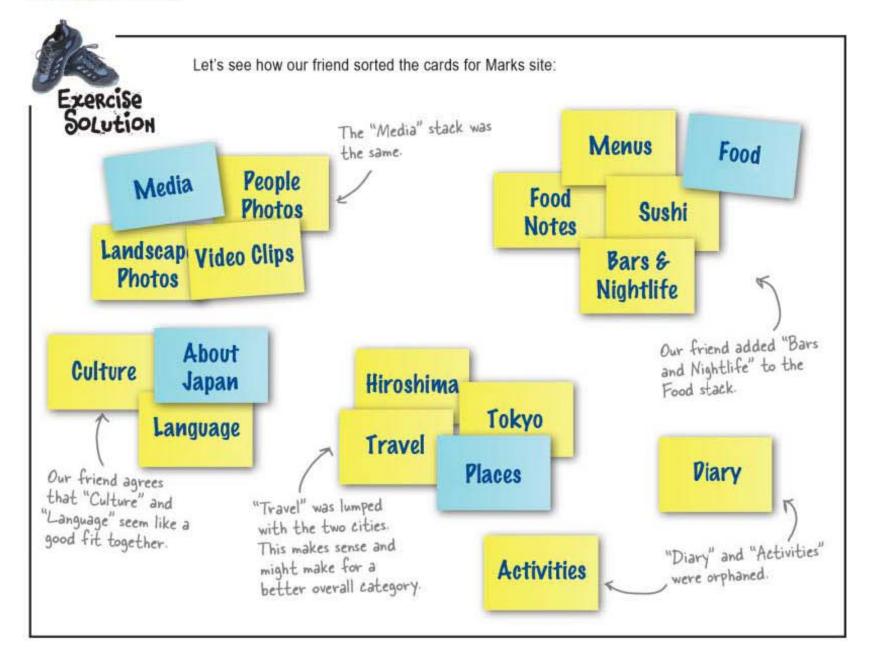




Ask a friend to sort the cards you created. Give them a very basic introduction to Mark's site (careful, don't try to influence them to choose one particular information structure), and let them organize your cards. Did they do the sort the same way you did? What different decisions did they make? Ask why! The ultimate goal is to come up with an information architecture for Mark's site that will not only meet the needs of the site (and Mark) but the user as well. Write at least three things you learned from your friend's card sort below.

Get your camera out again! Now you should have two pictures of two totally different organizations of Mark's content.

you are here ▶ 91



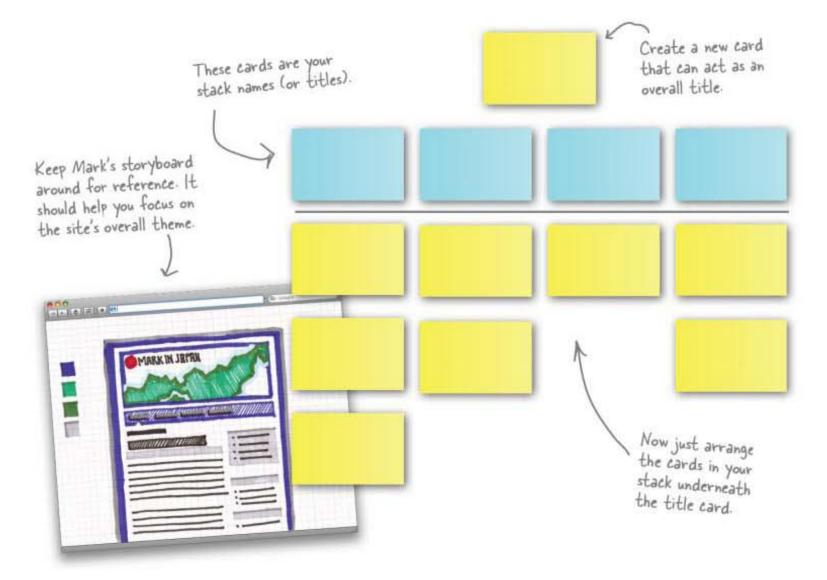
Which card sort is right?

Getting a second opinion on your sorts is important and often results in organization that you may not have initially thought of. But how do you know which one is better or which one deserves more weight? Well, it depends. If five of your friends do the sort and all come up with similar results-you can bet that's probably the best way to organize things.

However, you're the web designer. Sometimes just having second and third options, and just tweaking your original sort is all you need. Make sure that when you're done, though, you feel good about the organization you've come up with. You (and Mark!) are going to have to live with it for a long time.

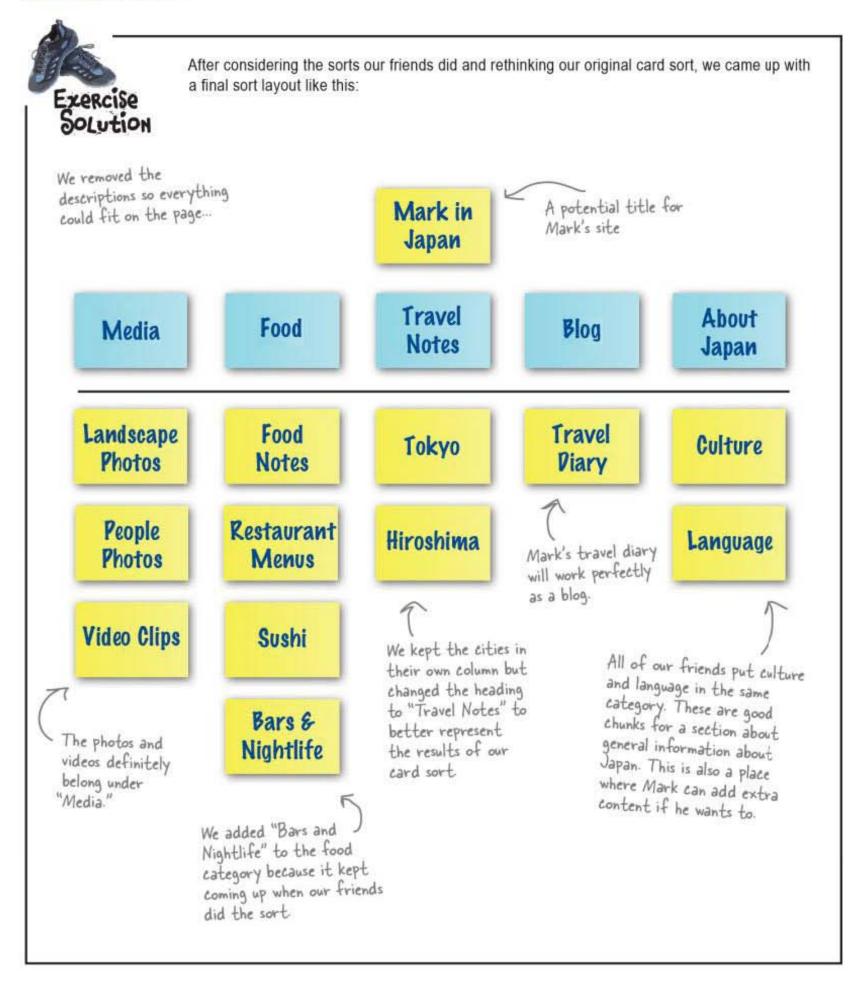
Arrange your cards into a site hierarchy

Once you're happy with your card stacks and titles, you need to put some structure in place. Lay your cards out like a site map. Just take a bunch of your left over 3x5 cards and write the group names that you came up with. Spread those out on the table that you've been using. Then, line up each "content" card below the appropriate "section" card.



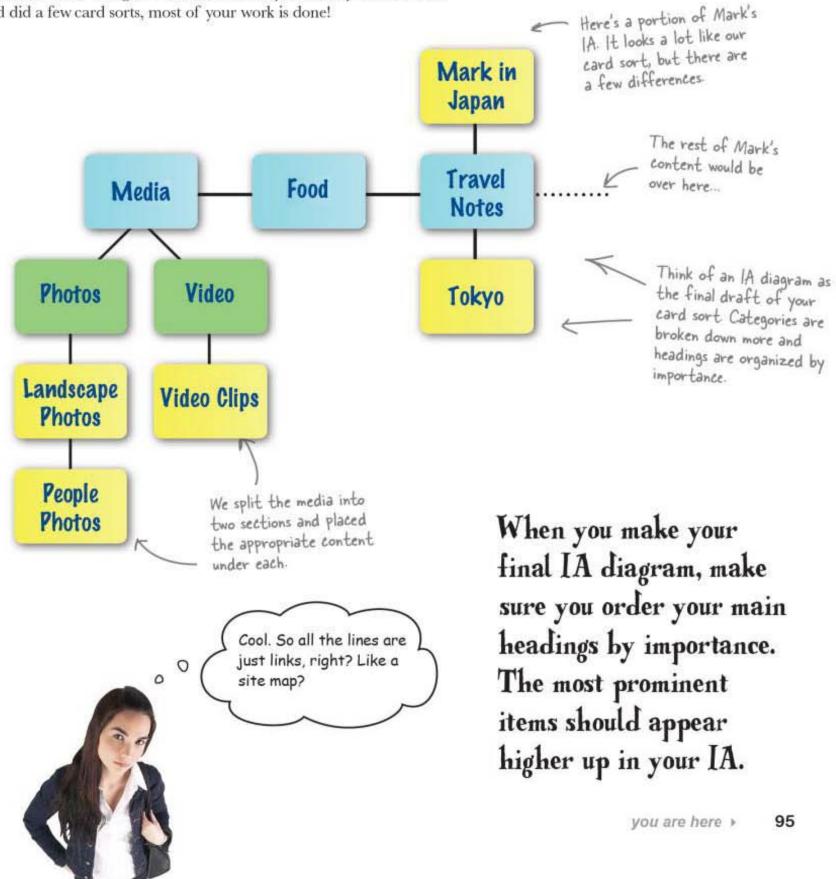


Once you've gone through a few iterations of your sort and had a friend or two try it out, arrange your cards as an IA diagram and **take another picture**.



IA Diagrams are just card sorts on paper

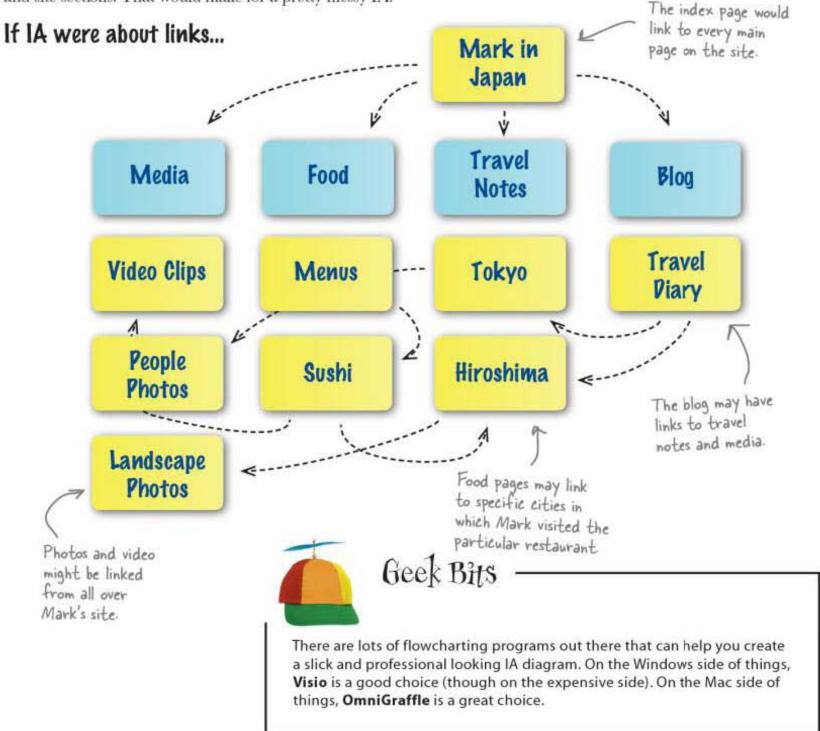
An IA diagram is a lot like the "on the table" site map you created (and photographed) in the last exercise, but it's also a lot more. An IA diagram not only shows the organization of your site's content, but it shows the hierarchical relationship between sections and subsections of that content. The good news is, because you already took the time and did a few card sorts, most of your work is done!

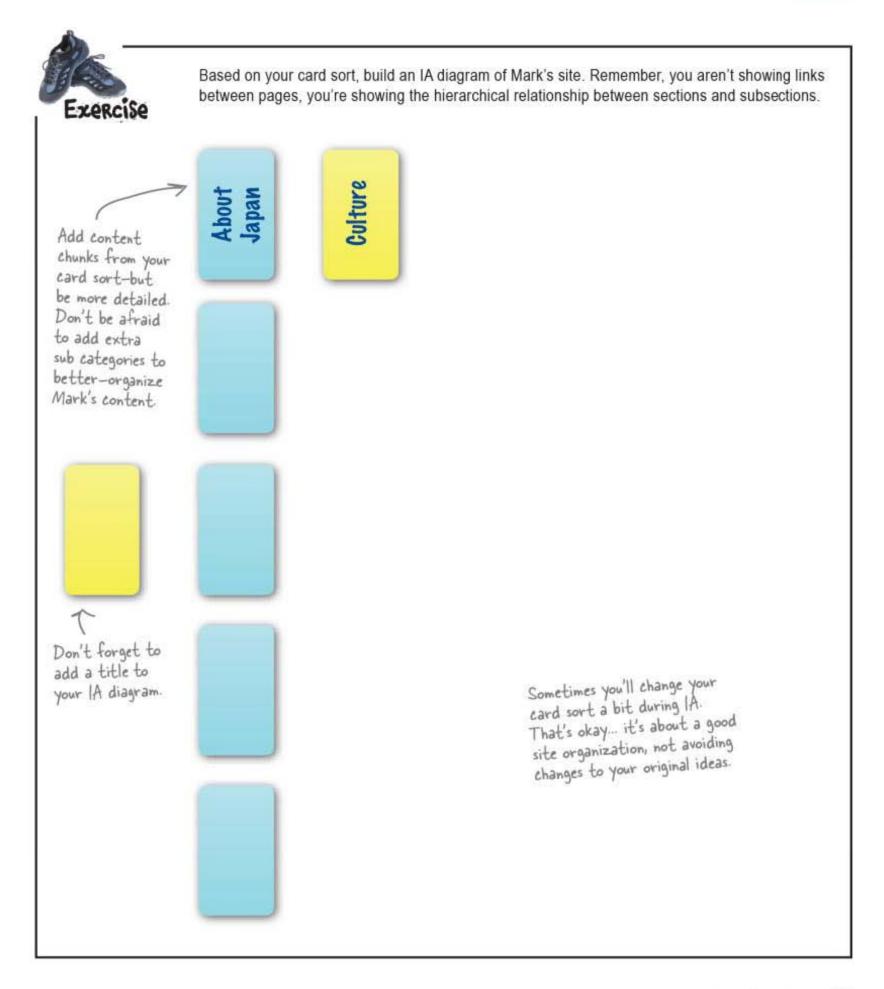


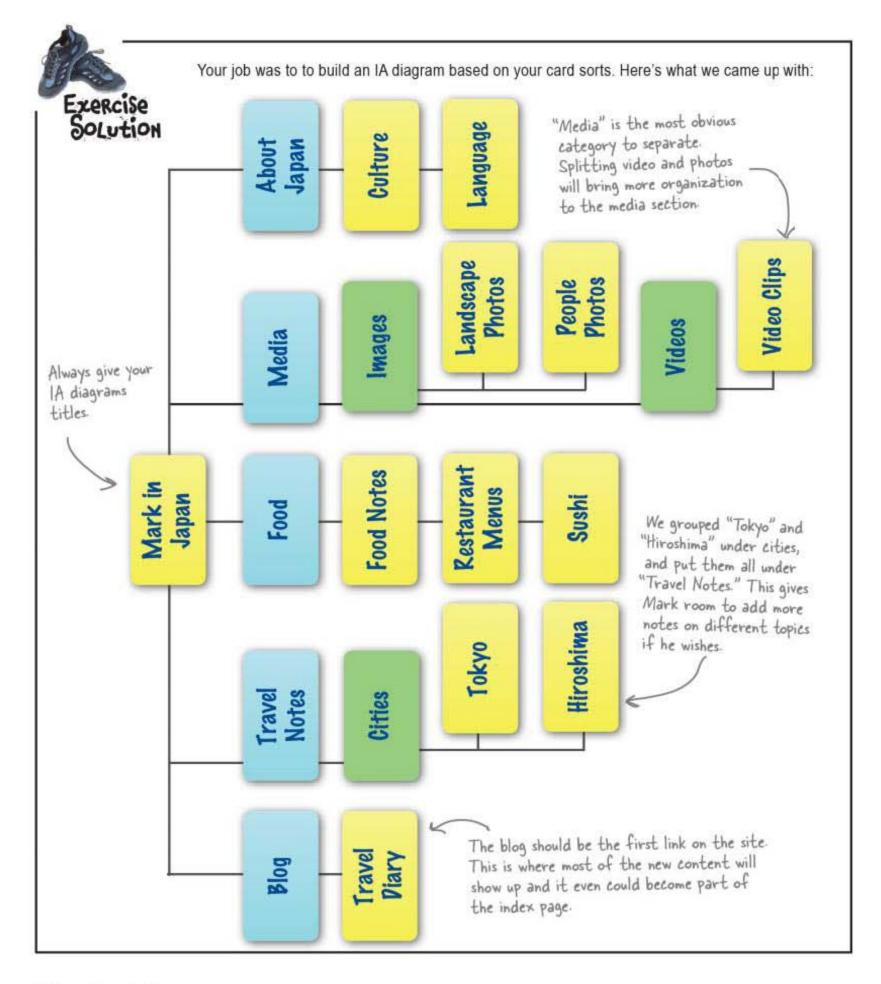
IA Diagrams are <u>NOT</u> just links between pages

IA diagrams are not about links—they're all about the hierarchical relationship between sections and subsections of content. If you were to try to create a diagram that showed links between sections, you would end up with a useless, spaghetti looking mess that wouldn't give you any kind of information whatsoever about this vital hierarchical relationship between the site's content.

Think about it like this... most sites have links all over the place, cutting across categories and site sections. That would make for a pretty messy IA!







Dumb Questions

Q: Is all this work really needed just to come up with some navigation categories?

A: Well, it is if you want to do it properly. Some sort of thought needs to go into the design of your content and navigation. Hastily designed IA can have a disastrous effect on the success of a website. Even if you do shortened, "quickie" versions of card sorting and IA diagramming, your outcome is likely to be better than if you did nothing at all.

Q: What if I just want to skip right to the IA and not do a card sort?

A: That's better than nothing, but you will really have no way of sifting through and auditing your content. The reason a card sort is so important is that is helps you get rid of content that is irrelevant and makes you think about how all those content chunks relate to each other. IA diagrams can help with this, but they aren't as thorough as a card sort.

Q: If IA diagrams don't show link relationships, what does?

A: Most of the time, a site map is the best way to show what links are available on a site. The problem with this is that a site map can't really be made until the site is finished. During pre-production, your focus should be on organizing content and not building links. That work will come when you start to build out pages.

Q: Do all websites go through this same process?

A: Actually, most probably don't-and that's why so many sites on the Internet are so difficult to use. In so many cases, IA and content organization are a design after-thought, leading to unusable websites and content that's difficult to find. Skipping preproduction will only lead to frustrated users and dwindling hits.

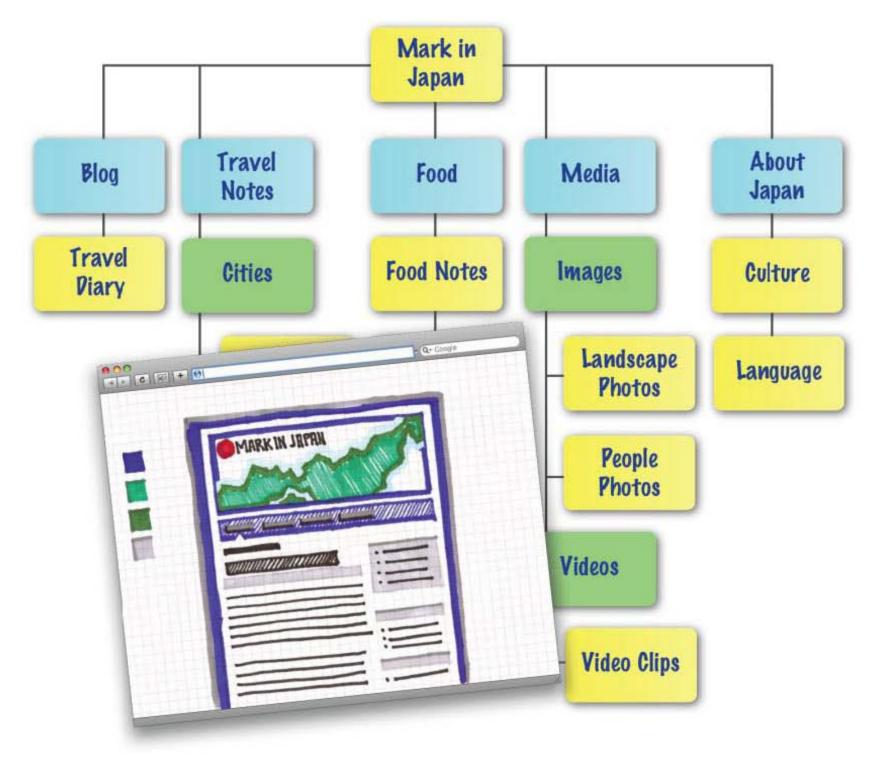
Q: How does a site's theme relate to information architecture?

A: IA actually directly relates to your sites theme. The content of your site is what drives the overall theme, and the organization of that content is important. If the IA is bad or focus is put on the wrong content, it will not only confuse users, but your theme won't come across either.

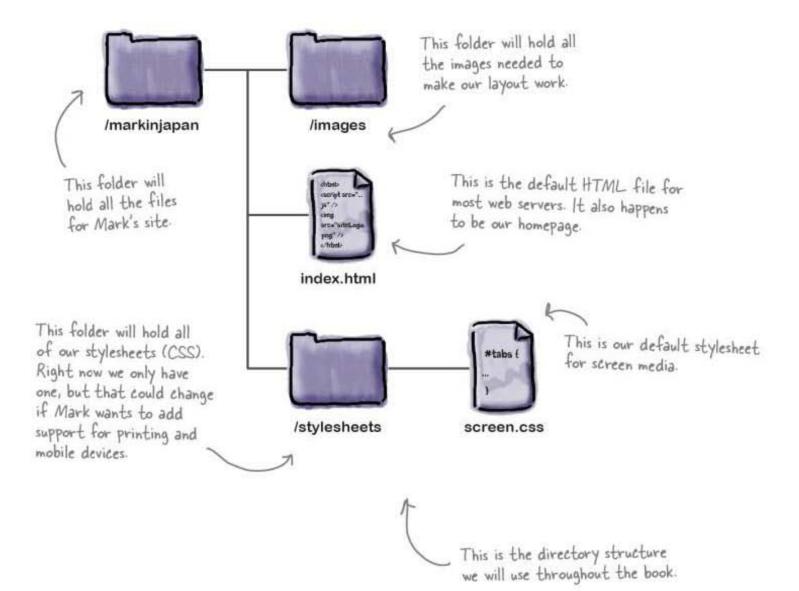
Move from pre-production to production

Coming up with an IA diagram and doing all those card sorts may have seemed like a lot of work for a simple navigation. Mark will love you, though, especially when his users are easily navigating his site and finding all his content without any problems.

And now we've got a well-organized IA, a storyboard Mark likes, and a clear idea where we want to take the site. Let's lay down some markup and style!



Build Mark's site structure



Create index.html first...

Using Strict XHTML means you won't be tempted to sneak style tags like <center> and into your markup. You'll have a nice separation of content and style.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <title>Mark in Japan</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="stylesheet" href="stylesheets/screen.css" type="text/css" media="screen" />
</head>
                           The "wrap" <div> is the container for
<body>
                            all our content and will also allow us to
<div id="wrap"> k
                                                                The navigation is just an unordered
                            center the page in the browser window.
  <div id="header">
                                                               list using the headers we came up
with in pre-production.
    <h1>Mark in Japan</h1>
  </div>
  <div id="nav">
    <u1>
      <a class="active" title="Home" href="#">Home</a>
      <a title="Travel Notes" href="#">Travel Notes</a>
      <a title="Food from Japan" href="#">Food</a>
      <a title="Photos and Videos" href="#">Media</a>
      <a title="About Japan" href="#">About Japan</a>
                                                For right now, just use dummy text to fill in the content and sidebar <div>'s.
    </div>
  <div id="content">
    <h2>Blog Header</h2>
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Pellentesque quis
       nisl eget est viverra placerat. Nam tincidunt ligula id turpis. Duis nunc.
       Nullam imperdiet quam ut magna.
  </div>
                                                   We use another unordered list in the
  <div id="sidebar">
                                                   sidebar to help organize our content.
    <h3>Sidebar Header</h3>
    Fusce diam. Pellentesque bibendum. Nulla viverra vestibulum justo.
           Pellentesque pulvinar sapien.
      Cras vestibulum elit id nibh hendrerit eleifend. Pellentesque id ante.
           Sed volutpat blandit mi.
    </div>
  <div id="footer">
    Copyright & copy; Mark in Japan, all rights reserved.
  </div>
                                     A footer gives us a place for more
links and copyright information.
Notice this is still within the main
</div>
</body>
</html>
                                       "wrap" <div>.
```

...and then screen.css for style

```
/* screen.css */
body {
       margin: 0;
       padding: 0;
       background: #026dc0 url('../images/bg.gif') repeat-x top;
       font-family: Helvetica, sans-serif;
                                                                This background is just a 1-pixel by
       line-height: 1.4em;
                                                                450px image that is repeated on
                                                                the x-axis of the page. The end
h1, h2, h3, p, ul, li {
                                                                result is a nice gradient effect.
       margin: 0;
                            You can declare multiple elements
in a rule that share common
       padding: 0;
                            attributes.
p, h2, h3 {
       margin: 0 0 10px 0;
ul {
       list-style-type: none;
#wrap {
       margin: 0 auto;
                                      The main styling for the "wrap"
       margin-top: 40px;
                                       <div> includes a lopx border and
       margin-bottom: 40px;
                                      "O auto" margin that centers the
       padding: 10px;
                                       page in the browser.
       width: 780px;
       background: #fff;
       border: 10px solid #044375;
#header {
       background: url('../images/island header.jpg') no-repeat;
       height: 250px;
#header h1 {
       padding: 30px 0 30px 30px;
       color: #fff;
       background: url('../images/dot.png') no-repeat 10px 50%;
       font-weight: normal;
                                             The background on the header heading is placed
       letter-spacing: -1px;
                                             using CSS by moving the text over and setting
}
                                              the red dot as it's background image.
                                                                   Continued on the next page ...
```

you are here ► 103

•

screen.css, continued...

```
#nav {
       margin: 10px 0 0 0;
                                                       Our navigation is just an
       padding: 10px;
                                                       unordered list that is displayed
       background: #044375;
                                                       in an inline fashion instead of a
       border-top: 5px solid #033761;
                                                       block style. The "display: inline"
                                                      changes this attribute.
#nav ul li {
       display: inline;
       margin: 0 10px 0 10px;
#nav a {
                                        On links, you must set the color on
       color: #fff;
                                        the elements itself. Links won't
       text-decoration: none;
                                         take the color from their parent
#content {
                                         <div>'s or elements.
       margin: 10px 0 0 0;
       padding: 10px;
       float: left;
                                             The content and sidebar are
       width: 505px;
                                              both floated left and right
                                              respectively with widths that
                                              equal about 2/3 for the content
#sidebar {
       margin: 10px 0 0 0;
                                              and 1/3 for the sidebar.
       padding: 10px;
       float: right;
       width: 225px;
#sidebar ul (
       margin: 0 0 40px 0;
#sidebar h3 {
                                                               0
       padding: 5px;
       background: #eee;
                                                                        Don't worry, all this code
       border-bottom: 2px solid #ddd;
                                                                        can be downloaded from
       font-weight: normal;
                                                                        the Head First site.
#footer {
                                                                        Actually, you should download
       clear: both;
                                                         the site. We've provided all the images, too, so
       padding: 10px;
                                                         that your design looks as good as it does on the
       background: #eee;
                                                         page. You can also see Mark's site online to
       border-bottom: 2px solid #ddd;
                                                         compare your version with:
                 Make sure you clear the footer so
                                                        www.headfirstlabs.com/books/hfwd
                 that it displays below both the
                 content and sidebar <div>'s.
```

104 Chapter 3



Pre-production to production: The complete process

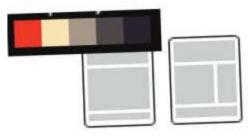


Gather all the your content.





Develop a visual metaphor and think about layout



8

Brainstorm a theme and visual metaphor ideas.

Map of Japan	
Sushi	
Hiroshima	
The Golden Palace	

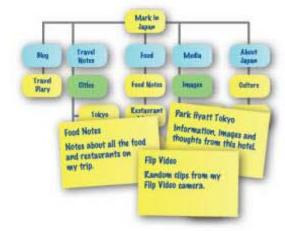


Build a storyboard (on paper)





Do a few card sorts and create an IA diagram.





Markup your content and style with CSS.





Your Web Pesign Toolbox

You've got Chapter 3 under your belt, and now you've added card sorting, IA diagrams and information organization to your tool box. Next up? We'll dive into designing a site for your audience... and how that always results in beautiful sites.

BULLET POINTS

- The point of a website is to communicate information—if that information is organized badly, your users will leave and not come back.
- The organization of a site's information has a direct impact on its navigation and usability.
- Card sorting is a cheap and easy technique used to impose an information structure on a site's content.
- Never rely upon your own card sort of a site's information—you aren't designing for yourself, you are designing for the site's audience.
- A card sort often results in orphaned cards—which are a clear indication of content that should either be rethought or discarded entirely.
- An Information Architecture (IA) diagram is a representation of the hierarchical relationship between sections and subsections of the sites information.
- Information Architecture diagrams are not designed to show the links between pages in a site.

4 layout and design



Follow the Golden Rule * Since I started listening to Sue, and giving her two-thirds of my attention, the results have been unbelievable! I get so much D 0 more attention and knowledgeable button-clicking!

It pays to be a good listener... and to carry a pocket calculator.

We've been talking about **user-centered design** for a few chapters, but here's where you really put your listening skills to the test. In this chapter, you'll take your users' feedback and build a site that meets their needs. From **browsers** to **screen real estate**, it's all about giving your users what they really want. Not only that, you'll learn the secrets of the **rule of thirds**. Find out how a few easy presses of the *calculator*, a *ruler*, and some *gridlines* can turn your blase web page into a thing of **beauty**.

this is a new chapter 109

Design is about audience

The **design** and **layout** of your site is the lens though which your users view and experience your content. If you have a confusing layout, your users are going to have a bad experience. However, if you develop a design and layout that is both functional and aesthetically pleasing, your users are not only going to hang around your site longer, but they'll want to come back.

The first step on the road to putting together a design which appeals to your users is to actually **know your users**. It's a lot harder to come up with a design that meets their needs if you don't know who they are (and what makes them tick).



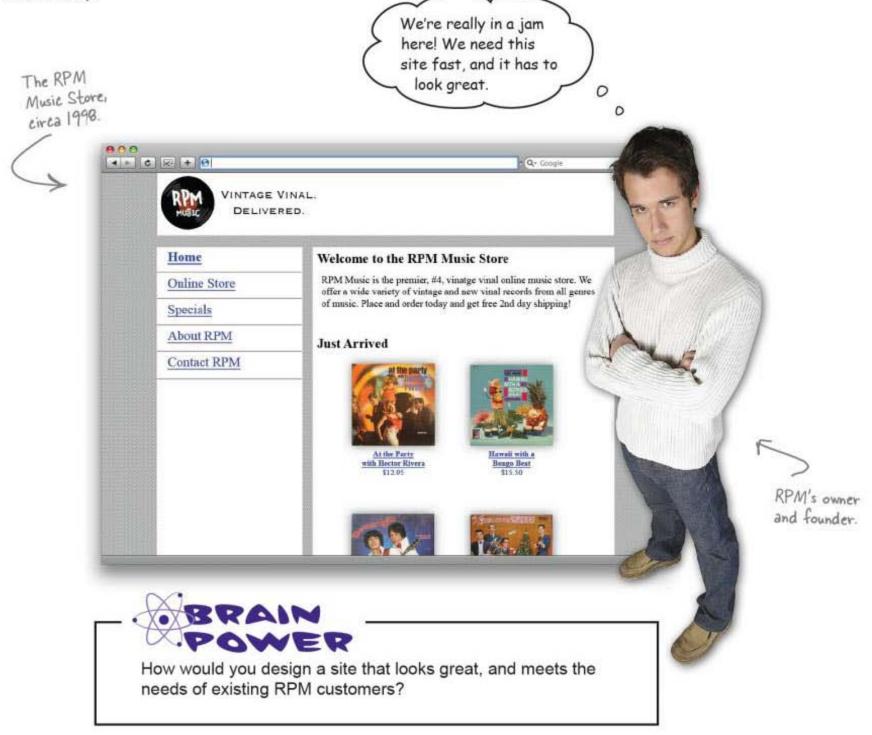




Your newest gig: RPM Records

A local record store—RPM Records—decides they want to re-do their horrendous site that was created for them way back in 1998. They not only want to bring their site up to date, but they want something that really meets the needs of their customers. The kicker is that they are also one of the sponsors of an upcoming progressive music festival, and they would look really silly if they were still using their old site by the time the festival starts.

You've got to redo RPM, make it look great, and ensure current users can get around easily.



Pinpoint RPM's audience with personas

When you've got a specific audience you're designing for, you've got to know what they like, and how they'd use a site. But you can hardly deal with hundreds—maybe thousands, even millions—of users all at once!

This is where a **persona** comes into the picture. A persona is a single user that stands in for all of your audience—a fictional user that has the most prominent characteristics of *all* your intended users. Those characteristics should relate to things that impact their web experience and browsing habits, like the browser your audience favors, or how long your audience spends online each week.

Give your persona a name - this helps to identify with them (as well as reference them).

Name: Ann

Age: **28**

Internet Connectivity: **PSL**

The specific details of the persona help us understand how each user interacts with a specific website.



Give all your personas an image. This attaches a face to a story and helps to reinforce the individuality of the user.

Avg. time online/week for leisure: 15 hours Browser of choice: Firefox Operating System: Windows XP

Screen Resolution: 800x600

Occupation: Student

Petails: Ann considers herself very tech savvy. She actively participates in social networks and online communities. She also regularly shops online. Her laptop (which is a little old, but all she can really afford right now) is her primary computer-and where she does all of her web browsing.

The most important part of a persona are the details. Give your user a story and a personality.

This is what you call web design? Making up people out of thin air, and figuring out their hobbies? Come on!

Your personas should be based on real data.

So where exactly does all of the data used to build personas come from? Well, it can come from a lot of different places. Technical stuff (like operating system and browser) can come from server statistics. Information about how your users behave online can come straight from the users themselves—using tools like surveys and focus groups. The point is that when you build a persona, you are not pulling characteristics out of thin air.

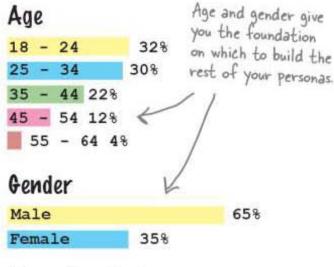
Let's look at some data for the RPM users that we can use to build accurate personas for the new RPM site. The RPM owner had some old surveys he's given us to work with:



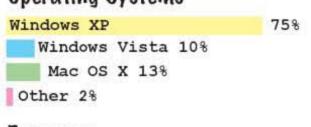
0

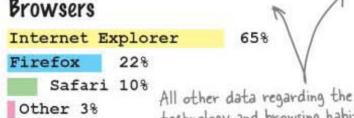
0

Pata about RPM Music's users:



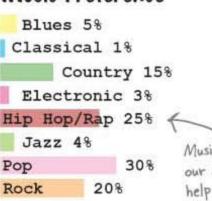
Operating Systems





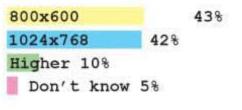
All other data regarding the technology and browsing habits of RPM's users can help us create a more rounded and accurate persona.

Music Preference

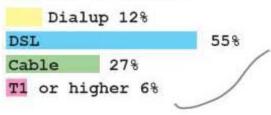


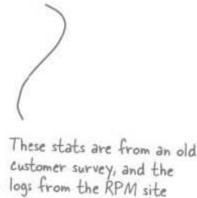
Music Preference will tell us what our audience likes to listen to and help us decide on a theme and look and feel for the site, since it's so music-dependant.

Screen Resolution



Internet Connection





you are here > 115

web server.

redesign. For the	PM user data, create two different personas for the RPM Music Store he first persona, take the top value for each of the categories. For the n, use the secondary value.
Make sure you add a picture. Paste in a Creative Commons photo, one you might have laying around, or anything you can find that seems to fit your persona.	Name: Age: Internet Connectivity: Avg. time online/week for leisure: Browser of choice: Operating System: Screen Resolution: Occupation: Petails:
Make up some fictional details about your persona (including occupation) - this helps give the persona a more realistic feel.	Name:

Two personas means we can deal with more common traits of our audience, right? So we end up with more satisfied users.

Building two personas widens the audience you can build your site for.

When you are building a persona, you're creating a representation of the primary characteristics of your audience. But most of the time, your audience isn't composed of just one type of person. You'll have lots of users who do not fall in line with the characteristics that you identified for your first (primary) persona. This is where the secondary persona enters the picture.

A secondary persona represents the characteristics that are **next in line** behind the majority characteristics that you used to build your primary persona. So you design first for your primary persona, but then you can also work on meeting the needs of your secondary persona, too. The result? A site that meets more of your audience's needs and makes more of them happy.

Dumb Questions

Q: So do I always have to build 2 personas?

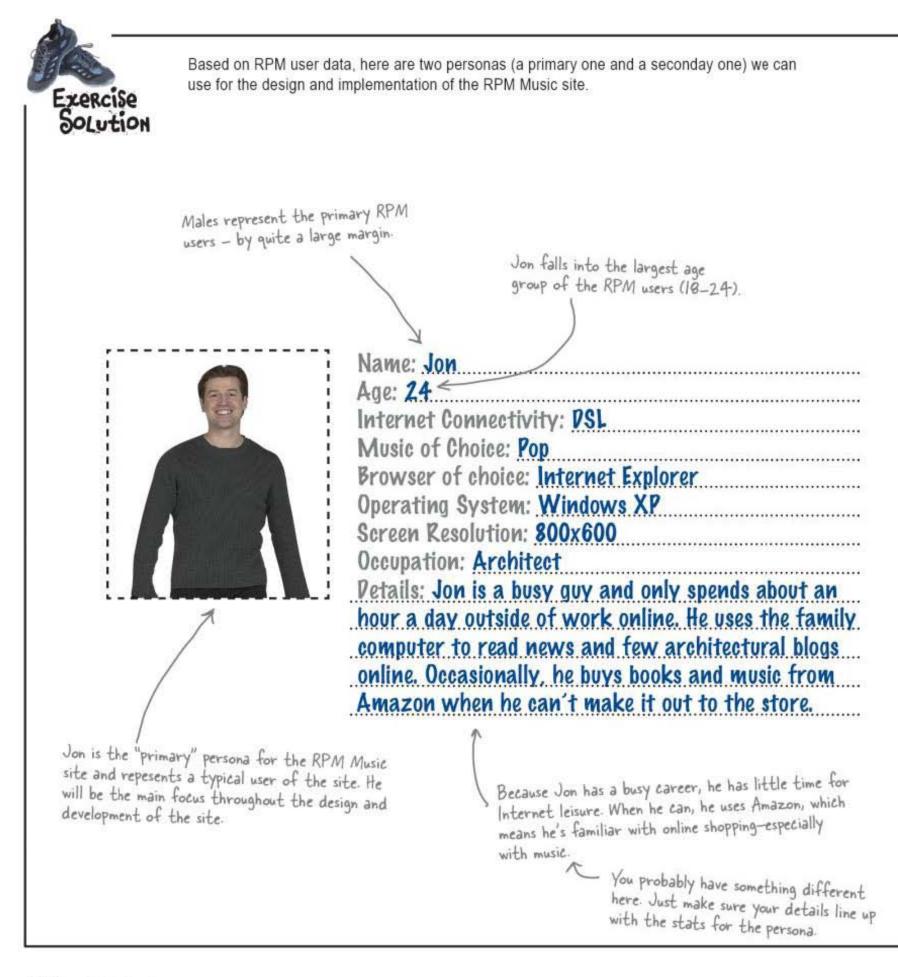
A: You don't have to, but it's a good idea. Audiences are diverse. You aren't always designing for one specific type of person. The second persona represents those audience members who are in the minority... but sometimes by only a percent or two.

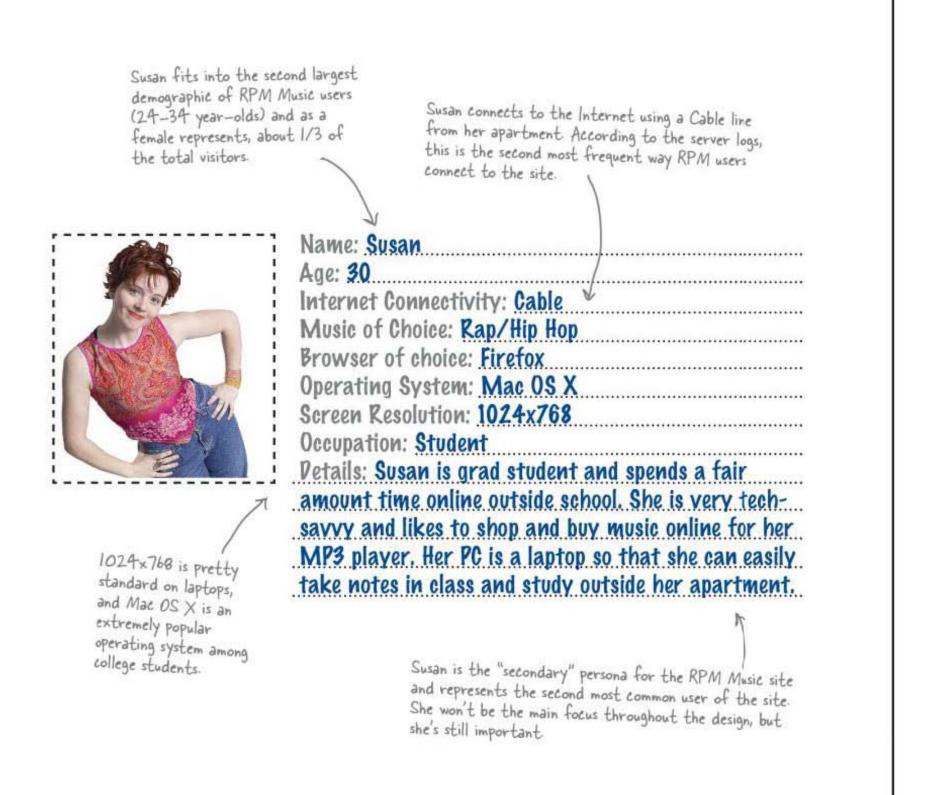
Q: Can I build more than 2 personas?

A: Absolutely. If your audience is diverse enough (as shown by your audience research), it might be a good idea to have personas that represent other audience characteristics. Be aware, however, that you really don't need more than three. Too many personas just add confusion and detract from the project at hand.

0

0





Let the personas be your guide...

So now you've got your two personas, and it's time to ask: "What would Jon do?" "How would Susan react?" Instead of designing for hundreds or thousands of faceless users, you're now designing for your personas... and *only* your personas.

So let's look at the old RPM site once more, in light of Jon and Susan. What do *they* think about the site?



You know, I've been getting a lot of complaints about things looking "weird" or "too big." Do people need bigger monitors to use RPM?



Smaller displays limit screen real estate

Jon uses an 800x600 screen resolution, which isn't very big... and of course, if Jon uses that resolution, then most of the RPM users do, too.

With a lower resolution like 800x600, parts of the RPM site aren't showing up, and Jon's having to scroll all over the place just to see everything. Not so usable... and sure to cause problems.

It sounds like RPM's old site was designed without much regard for **screen real estate**... and that's the first thing we can try and fix.

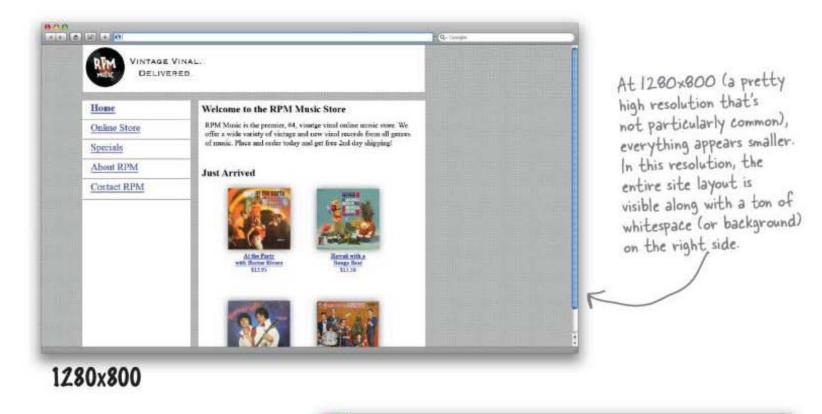


Is it better to design a site that looks perfect on one specific resolution—the most common one used by your audience—or a resolution that looks pretty good on lots of resolutions, but not quite perfect on any?

Resolution impacts design and layout

Screen resolution affects the screen real estate your site has to work with. Higher resolution means more space available... but also tends to make things look smaller to users.

Let's look at the old RPM site in several different resolutions:









The first thing you'll notice with the site at 800x600 is that everything appears larger. The layout is actually bigger than the available space in the browser window. There are scrollbars everywhere, and all the whitespace and background that appeared at higher resolutions on the right side are completely gone.

800x600

At a resolution of 640x480, the layout is absolutely huge - and the screen real estate simply can't contain it. Only the smallest portion of the layout is actually visible in the browser window. If you wanted to see the rest of the page, you would have to do a whole lot of scrolling.



640x480

7

Screen real estate determines how <u>MUCH</u> of your site will display in your user's browser

Think about screen real estate as the size of the canvas upon which you will build your website. But the thing is, that canvas size isn't fixed. Some users have large 30" displays, some have nothing but a tiny iPhone. Even worse, a lot of users actually access your site on multiple screens: a phone on the go, a 21" monitor at work, and a 14" AirBook at home.

Screen **RESOLUTION** also affects screen real estate

Then there's screen resolution. Even on a 21" monitor, users can choose their resolution: from 640x480 to 1600x1200, with a ton of different (and often unusual) choices in between. A higher resolution means that things appear smaller—and you'll have more virtual space for your site to work with. A lower resolution means that things on our site appear bigger, so you've got less virtual space to work with.

I don't know about all that. I just know that the RPM site sucks. I love coming in and picking up some vinyl, but online... no way.



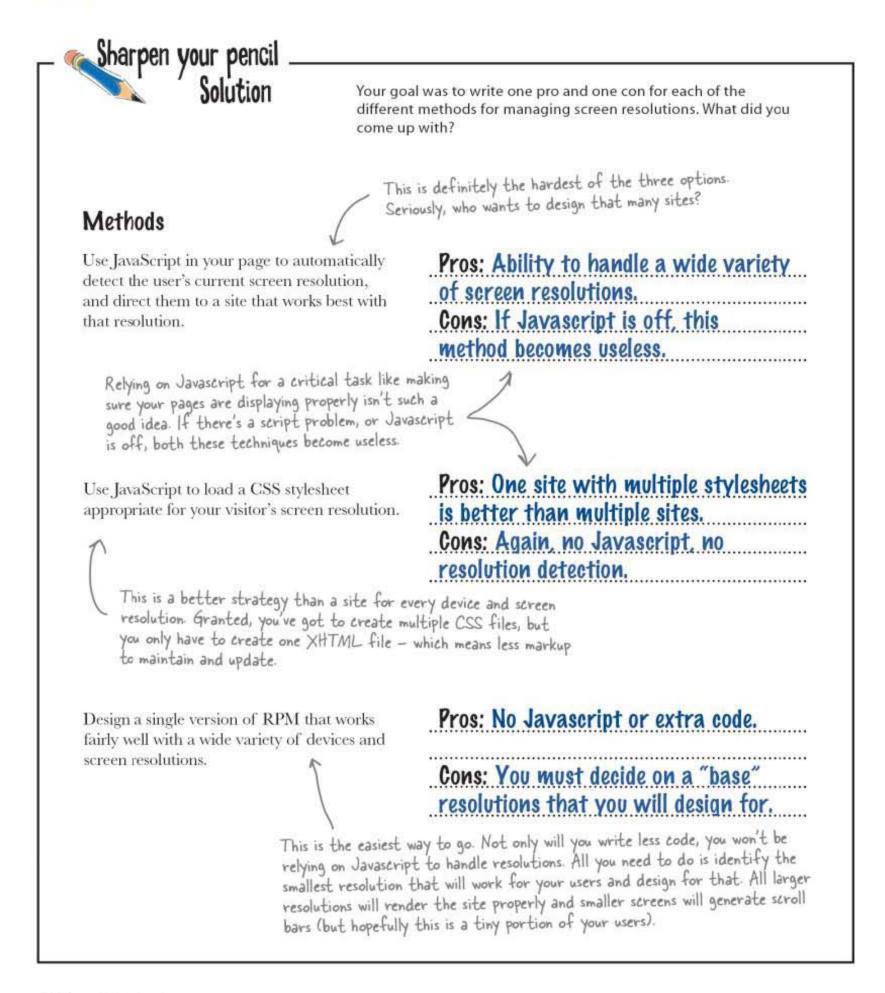
Your users don't care about screen real estate... they just want sites to "work."

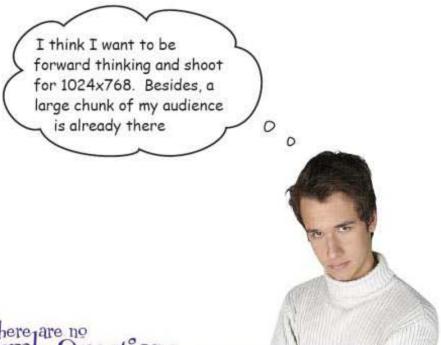
Have you ever seen a site that has an opening message like, "Site best viewed in 1024x768?" Have you ever actually gone in and messed with your screen resolution based on one of those messages?

Yeah, not so much.

It's up to you, the web designer, to make sure a site looks right for your audience. You can't count on users changing their resolution or the device they use your site on... at least not if you (and your client) want to stay in business. So we've got to figure out a way to make RPM a lot easier to use for Jon, who's sporting an 800x600 screen resolution, and Susan, who's using 1024x768.

		are methods for dealing with different screen resolutions. ook at each one and write down a pro and a con of each.	
Nethods			
Use JavaScript in your page to automatically detect a user's current screen resolution, and direct them to a version of the RPM site that works best with that resolution.		Pros:	
		Cons:	
Use JavaScript to load a CSS stylesheet appropriate for each user's screen resolution.	ion.	Pros:	
		Cons:	
Design a single version of RPM that works fairly well with a wide variety of devices and screen resolutions.		Pros:	
	and	Cons:	





I understand screen real estate, but I'm having some trouble with screen resolution. How exactly is the resolution of a screen measured?

A: Screen resolution is measured in horizontal and vertical pixels. So a small display may have a screen resolution of 640x480. This means that the monitor displays an area of 640 pixels wide and 480 pixels high. A resolution of 800x600 means 800 pixels wide and 600 pixels high, and so on. Its also important to note that it isn't just computer displays that measure their resolution in pixels. Televisions (LCDs, DLPs, etc.) all use the same method of representing screen resolution. For example a 720p HD television has a screen resolution of 1280x720.

Q: Are there really that many screen sizes and screen resolutions that I need to think about when I'm designing my site?

Dumb Questions

A: Absolutely! Even when it comes to traditional desktop computers. you've got to be concerned with a wide variety of screen resolutions. Computer screens can range in resolution from the very small, 640x480, to the very large, 2560x1600. And that doesn't even count mobile devices (iPhones, cell phones, PSPs, etc.) and those other consumer devices that allow you to browse the web (like the Nintendo Wii, for example). Ultimately, it all comes down to doing your research and knowing your target audience-and developing a persona that takes the important user characteristics into account. If you know that your primary persona generally views websites at a lower resolution, you don't have to worry too much about designing for higher screen resolutions and larger displays.

Ck, I get the fact that I've got to worry about lots of different screen resolutions and display sizes. But is there one screen resolution that is most widely used? A: It's all about your audience. If you've done your research and you know your audience, you can probably decide upon a target screen resolution that you can design for. However, if you don't know anything about your audience (or if your audience is very general), most web statistics agree that about 54% of users have a screen resolution of 1024x768. For more cool statistics, check out http://www.w3schools.com/browsers.

U: How will I know if my site works on a certain screen resolution?

A: Test, test, test. Build your site, and then change the screen resolution on your display to test out your design. If you are designing for a specific resolution, build the site from the ground up in that resolution. If you are designing for another kind of device (mobile device, etc.), be absolutely sure you've got one of those devices around in order to test your site on it.

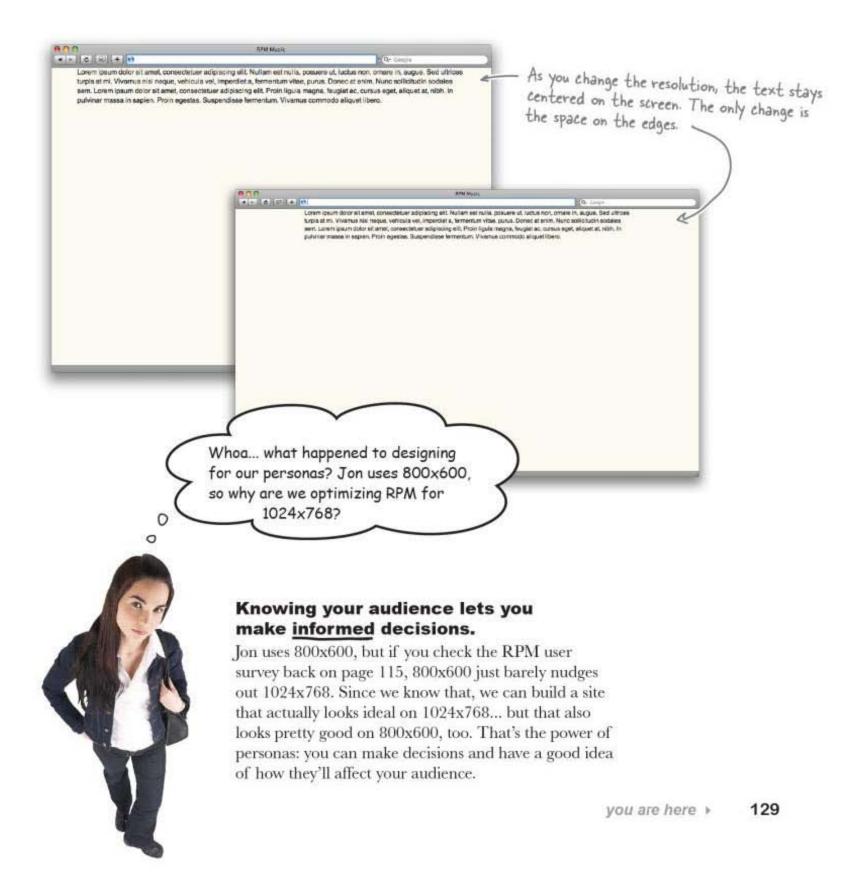
Build an XHTML and CSS foundation optimized for 1024x768

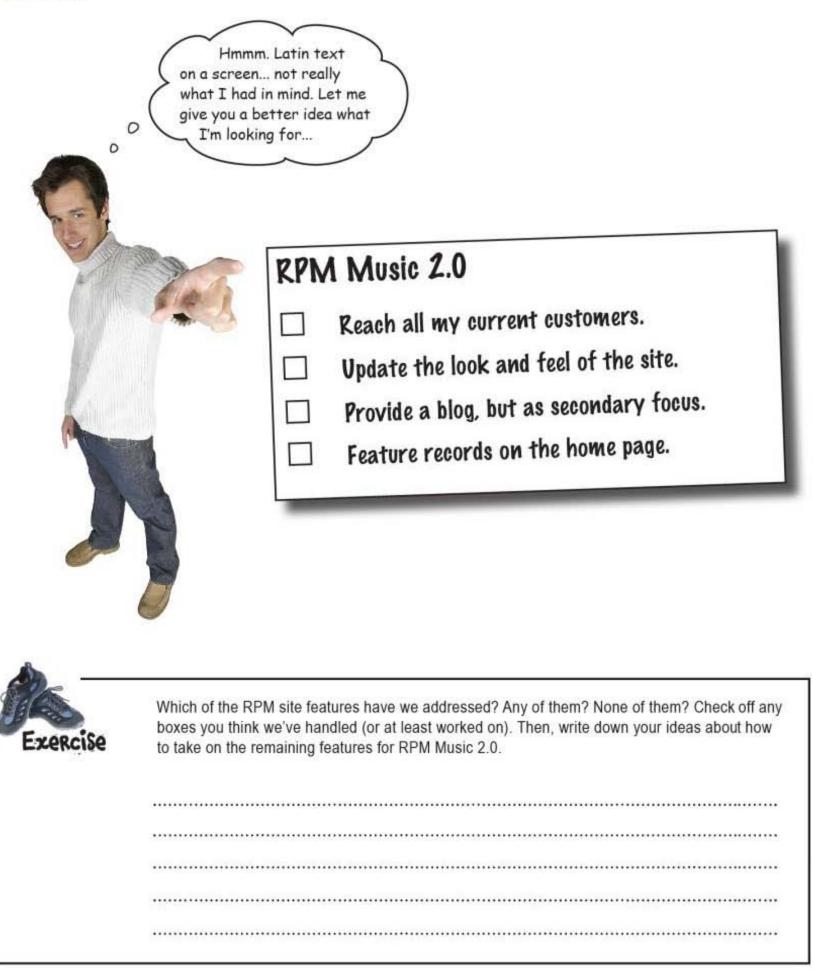
```
Standard XHTML Strict DOCTYPE
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
                                                                                  index.html
<head>
  <title>RPM Music</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  k rel="stylesheet" href="stylesheets/rpm.css" type="text/css"
         media="screen" />
<div id="wrap"> will
</head>
                         be used to center our
<body>
                          layout in the browser.
  <div id="wrap">
    < Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Nullam</p>
         est nulla, posuere ut, luctus non, ornare in, augue. Sed ultrices
         turpis at mi. Vivamus nisi neque, vehicula vel, imperdiet a, fermentum
         vitae, purus. Donec at enim. Nunc sollicitudin sodales sem. Lorem
         ipsum dolor sit amet, consectetuer adipiscing elit. Proin ligula magna,
         feugiat ac, cursus eget, aliquet at, nibh. In pulvinar massa in sapien.
         Proin egestas. Suspendisse fermentum. Vivamus commodo aliquet libero.
  </div>
                                                          This dummy text is just temporary so we can make sure our page is setup properly.
</body>
</html>
              /* rpm.css */
                                                           This is a typical setup for the <body> tag.
              body {
                                                           Zero out the padding and margins, set a
                     margin: 0;
                                                            background color and a font, and establish a
                     padding: 0;
                                                           line height for site text.
                     background: #026dc0;
   rpm.css
                     font-family: Helvetica, sans-serif;
                     line-height: 1.4em;
                                             margin: O auto will center our
              p {
                                             dummy text in the browser.
                     margin: 0;
                                             This value will also allow your
                     padding: 0;
                                             site to adjust to different
                                             screen resolutions.
              #wrap {
                     margin: 0 auto;
                                              A width of 900px is small enough to accommodate a
                      width: 900px;
                                              1024x768 screen but large enough for the content we
                                              need for the RPM site.
```



Create a very simple test page.

We don't have much to RPM yet, but go ahead and create index.html and stylesheets/rpm.css, and load them up in your web browser.







Joe: How do you please a persona? I mean, how do you know if you've designed for them?

Jim: Maybe you can send a fictional survey to their fictional address. Offer them a fictional gift for responding ...

Frank: Okay, okay... yeah, we can't exactly ask Jon or Susan what they think. But we know they're young, that they've got modern computers...



Joe: ...so you're saying that if we design something that's pretty modern, then they'll like it?

Frank: Exactly.

already!

Jim: Okay, just for a moment, let's say I buy into all this persona stuff. What is modern? I mean, how do you make a site look clean and hip and all that stuff? Isn't it just aesthetics? Like it's all in the mind of the designer?

Frank: Not at all. In fact, I was just reading about something pretty cool: the Golden Ratio.

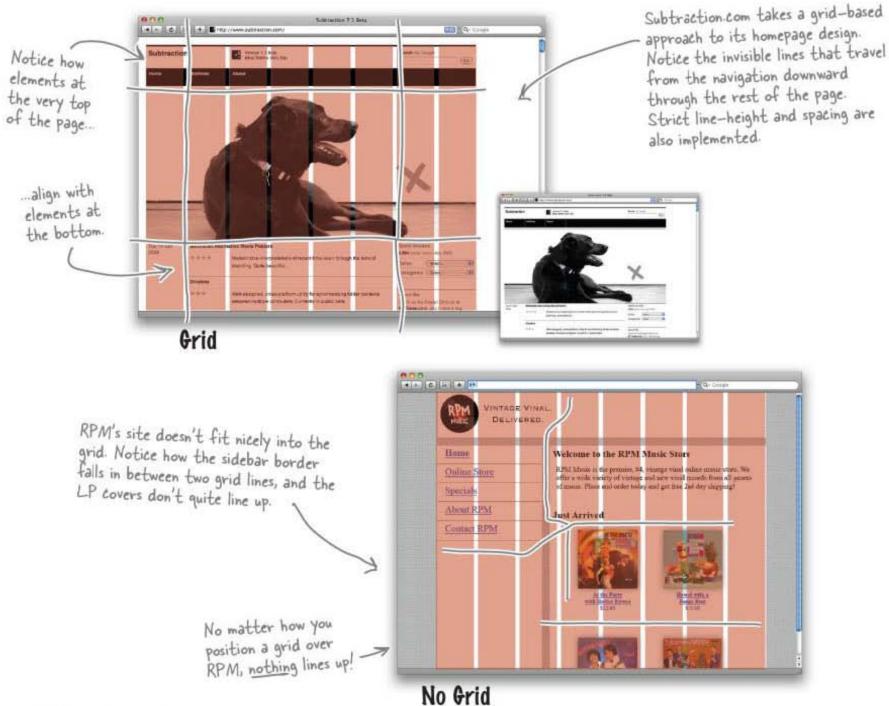
Joe: Is that like the Golden Rule? Do unto others...

Frank: No, the Golden Ratio is a cool way to make sure a site looks pleasing to the eye. Let me show you...

Humans like things lined up and well-organized

What makes a beautiful site appealing to us? What makes an ugly site so unattractive? Well, most of the time, it's all about how our eyes perceive the elements on the site. There is nothing worse than a print document or a webpage in which graphics and text have been thrown in haphazardly. Our eye needs predictability and a certain amount of visual logic when absorbing information.

Imagine if you laid out a grid on top of your favorite sites. Do things line up along a grid? Are there strong horizontal and vertical spaces that allow you to group the page into sections? Take a look at a grid-based site... and the old version of RPM:

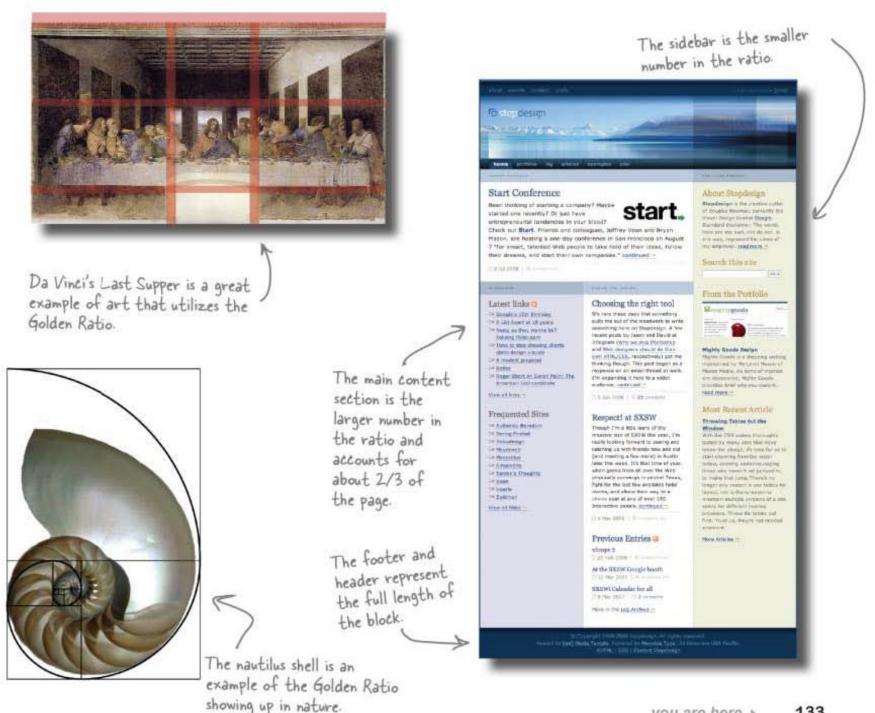


layout and design

How wide should my grid be? Use the Golden Ratio

The grid is one of the oldest graphic design tools out there. It's so old that it predates "modern" graphic design. Way back during the Renaissance, painters started using a grid based on the Golden Ratio in order to compose their paintings. Golden Ratio? What the heck is that? Well, if you take a length of a line and multiply by .62, you get a ratio that can be used to create a pleasing, natural-looking grid-that's the Golden Ratio!

The whole idea behind the Golden Ratio is to use a balance that we've all seen around us our whole lives, and put that balance into use on a web site. The result? Sites just "feel" and "look" right to our eyes. Just take a look at a few examples of the Golden Ratio in action:



The rule of thirds: A shortcut to the Golden Ratio

The Golden Ratio says that if you take the entire width of something, and multiply it by 0.62, you'll get a nice wide area that you can put content into. The remaining 0.38 is great for sidebars, extra content, things that the eye can look at second.

But multiplying by 0.62 isn't that handy unless you're carrying around a pocket calculator (Head First Algebra, anyone?). Fortunately, 0.62 is awfully close to 2/3... and the remaining 0.38 is pretty close to 1/3. So if you divide something into thirds, two of those thirds are perfect for your main content, and the remaining 1/3 is great for sidebars, navigation, blogs...

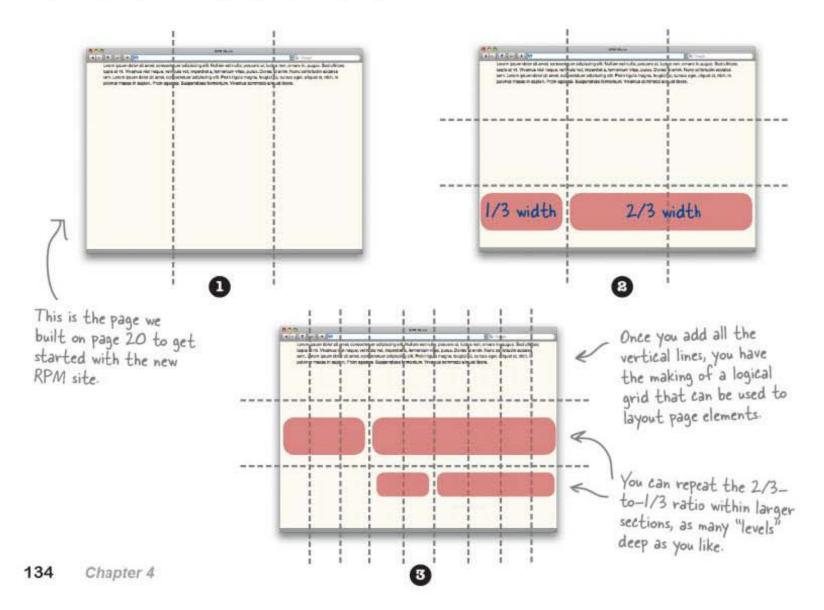
Here's what you should do:

Step 1: Take a piece of paper, and draw a rectangle to represent your site. Then divide your rectangle vertically by thirds (use a ruler, or just estimate carefully).

Step 2: Divide the rectangle horizontally by thirds. Now you've got a very loose grid.

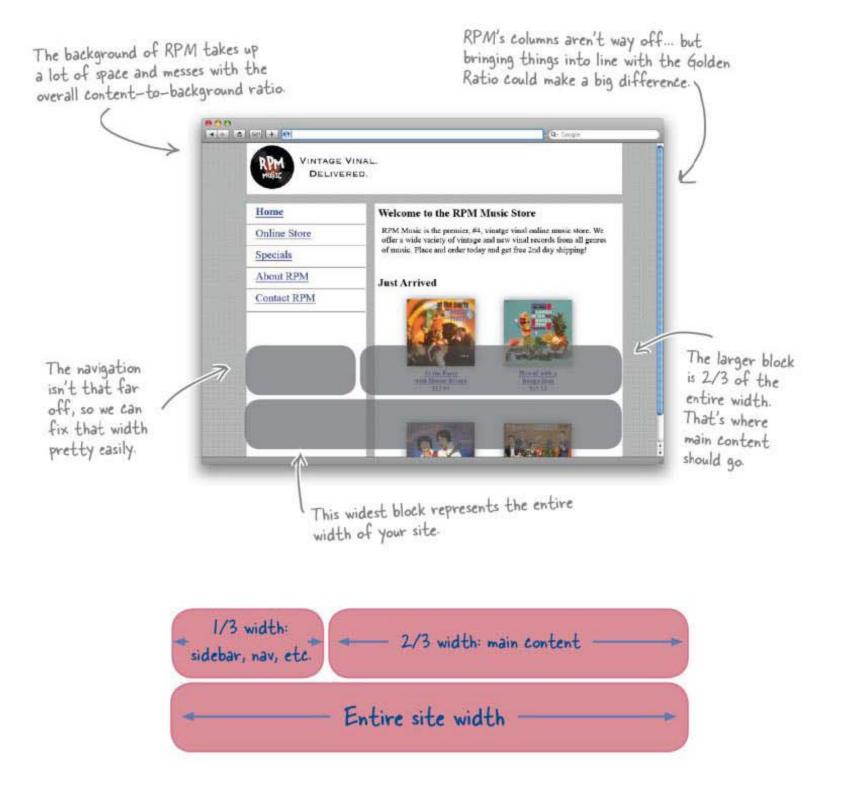
Step 3: Divide each of your vertical columns into thirds. Now you've got sort of a grid-withinyour-grid. So you can actually use the 2/3-to-1/3 ratio in smaller chunks of your site, too.

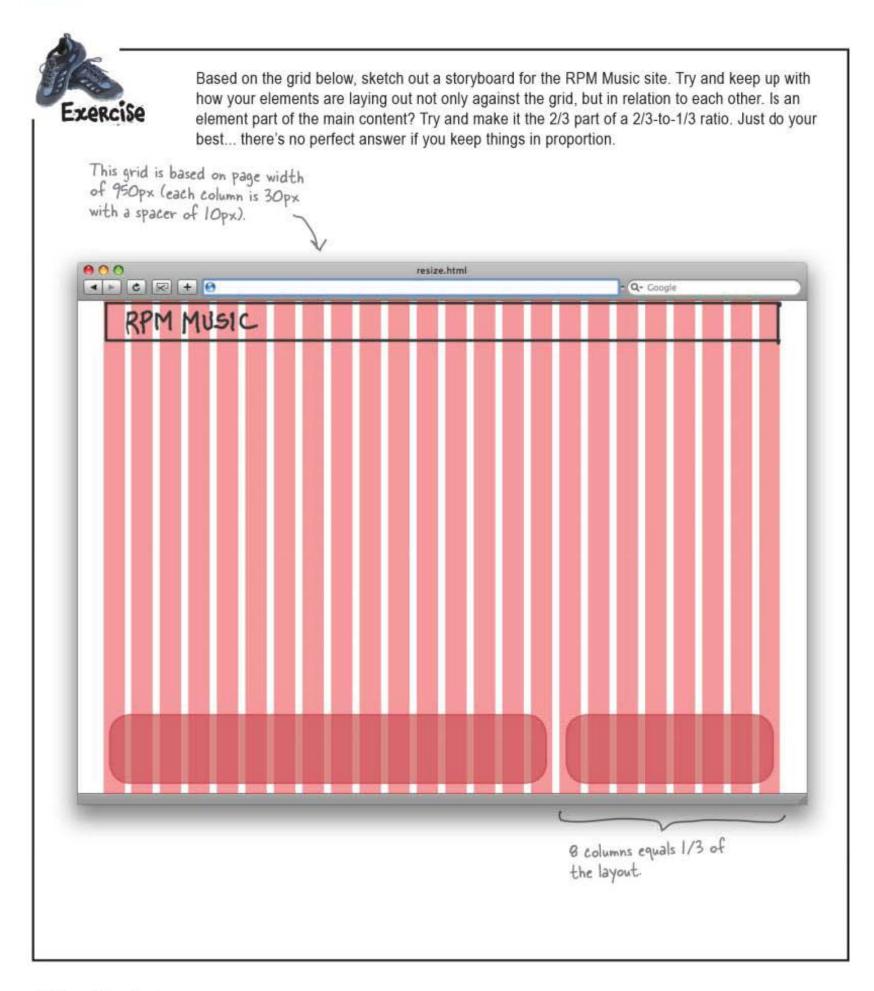
Step 4: Lay out your site, aligning things with your gridlines.

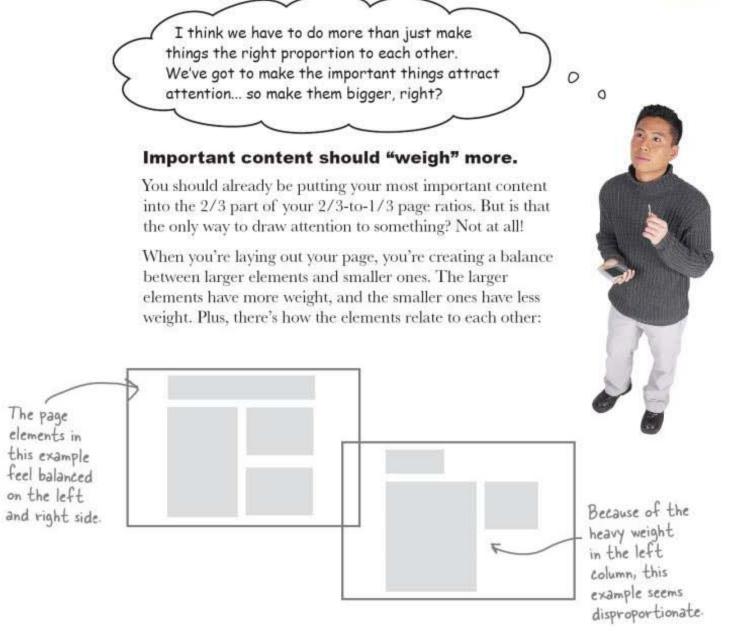


RPM and the Golden Ratio: An (anti) case study

So if the eye really likes to see things in a 2/3-to-1/3 ratio, how does RPM's site stack up? We already know it doesn't really follow any particular grid alignment. But what if we overlay the 2/3 to 1/3 ratio graphically... what does it tell us about RPM?







When you are laying out your web page, you need to consider two kinds of balance: symmetrical and asymmetrical.

Symmetrical balance occurs when elements on either side of a line (either horizontal or vertical) have the same weight.

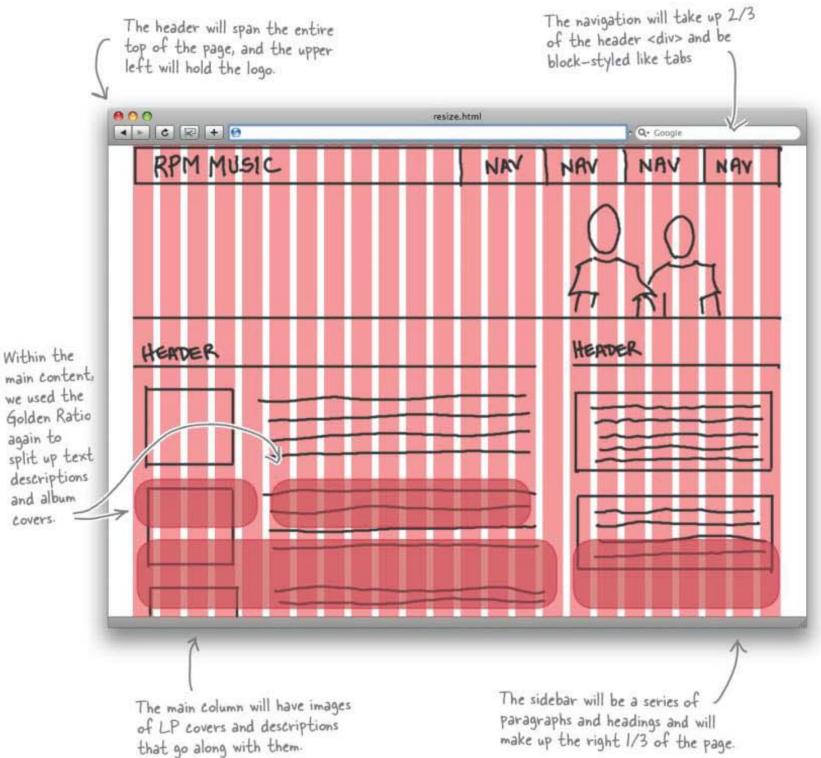
Asymmetrical balance occurs when the weight of a site's elements is not evenly distributed around a central line. So you've got one really large element only partially offset by other, smaller elements.



Revisit your solution to the exercise on page 136. Is your layout symmetrical or asymmetrical? Do you think balancing (or unbalancing) your layout is an improvement? Make any changes you want to, and then turn the page to see what we came up with.



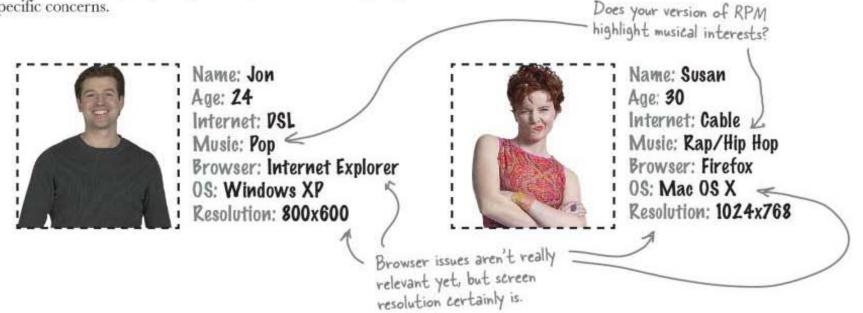
In this exercise, you had to draw a storyboard for the RPM Music site based on the broswer grid. There's no right answer, as long as you came up with a balanced layout that follows the Golden Ratio.



Remember your personas?

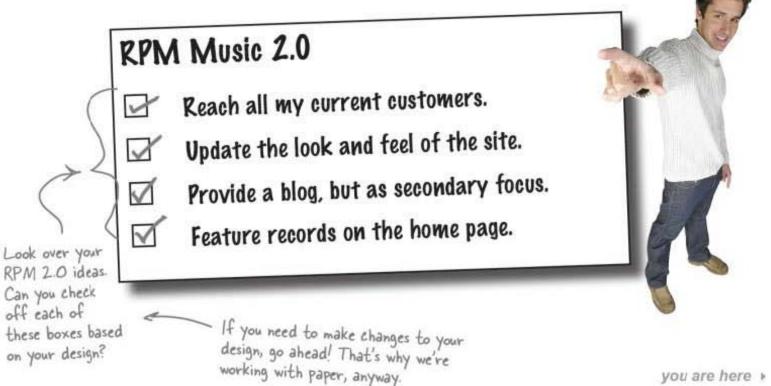
Take a second and look back at your answer on page 138. Is it balanced? Symmetrical or asymmetrical is okay. Did you follow the Golden Ratio?

But that's not all you have to worry about. Remember, you should be designing for your personas, who have some pretty specific concerns.



Remember your client?

The RPM owner also had a lot of requirements. Did your vision of RPM 2.0 meet what he's looking for?



using blueprint for page layout

So we're ready to dig into some XHTML, right? Can we use CSS to actually build a grid that we can align elements to?



0

0

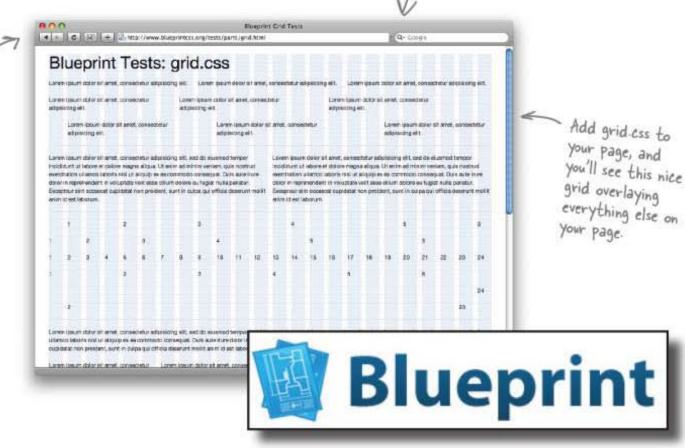
There are CSS frameworks that provide grids for our content to "sit" against.

When you're actually building your page in XHTML, it's not always easy to line things up as well as you can with paper, pencil, and a ruler. Fortunately, there are a lot of cool CSS frameworks that will provide a grid for you. One of the best of these is Blueprint: http://www.blueprintcss.org/

One of the best things about Blueprint is that it provides an enormous amount of flexibility in terms of the types of layouts you can create. It also provides support for styling form elements and status messages—something you don't see in a lot of other frameworks. You can Google for "CSS framework" or "CSS grid framework" to find several other options.

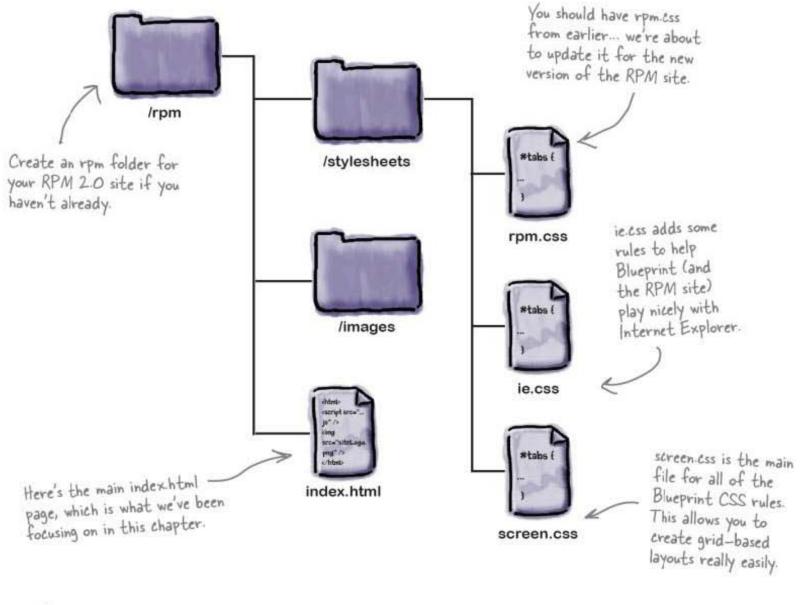
Blueprint allows you to build grid-based layouts in just about any conceivable configuration.

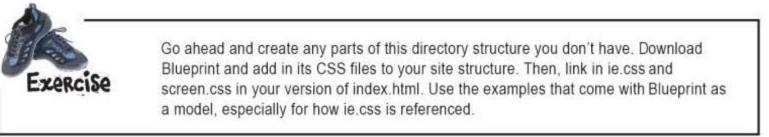
Blueprint uses a page width of 950px, which is based on 24 30px columns with 10px spacing. This will give us a layout that fits nicely within a 1024x768 resolution.



Set up RPM 2.0 with the Blueprint Framework

Make sure you've got the simple version of index.html and rpm.css from page 128. Then visit blueprintcss.org and download Blueprint. In the unzipped directory, you'll find a /blueprint folder that has all the files you need. You can drop the stylesheets in this folder right into the stylesheets folder of the RPM 2.0 site you're building:







Go ahead and create any parts of this directory structure you don't have. Download Blueprint and add in its CSS files to your site structure. Then, link in ie.css and screen.css in your version of index.html. Here's what you should have come up with:

```
Make sure you add the Blueprint
                         CSS links above the rpm.ess file.
                         This way, our CSS rules overwrite
                         any Blueprint CSS rules.
              <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
                     "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
              <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
              <head>
                <title>RPM Music</title>
                <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
                                                                                          screen.css is the
                k rel="stylesheet" type="text/css" media="screen" <</li>
                                                                                           main Blueprint file.
                       href="stylesheets/screen.css" />
                <!--[if IE]>
                   <link rel="stylesheet" href="stylesheets/ie.css" type="text/css"</pre>
                                                                                           ie css is for handling
                         media="screen, projection">
                                                                                           Internet Explorer
                <![endif]-->
                                                                                           differences.
The <!-- Lif (E3>
                k rel="stylesheet" href="stylesheets/rpm.css" type="text/css"
                       media="screen" />
comment only
              </head>
shows the ie.css
file to browsers <body>
                <div id="wrap">
that identify
                  Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Nullam
themselves as
                      est nulla, posuere ut, luctus non, ornare in, augue. Sed ultrices
 Internet Explorer.
                      turpis at mi. Vivamus nisi neque, vehicula vel, imperdiet a, fermentum
                     vitae, purus. Donec at enim. Nunc sollicitudin sodales sem. Lorem
                      ipsum dolor sit amet, consectetuer adipiscing elit. Proin ligula magna,
                      feugiat ac, cursus eget, aliquet at, nibh. In pulvinar massa in sapien.
                      Proin egestas. Suspendisse fermentum. Vivamus commodo aliquet libero.
                </div>
              </body>
              </html>
```



index.html

Dumb Questions

Q: What exactly is a framework?

A: These days, "framework" is really just a buzzword in web design and development. A framework is just a set of tools, libraries, conventions, and best practices that are designed to abstract day to day, routine web design tasks into generic modules that can be reused. The goal of a good framework is to allow you to focus on tasks that are unique to your specific project, rather than more repetitive mundane tasks (like laying out a grid in CSS!).

Q: I get that Blueprint is good, but are there other grid-based CSS frameworks?

A: Yup-there are lots and lots out there. Some of the most prominent are 960 and Yahoo UI (YUI) Grid CSS.

Q: 960? How does that measure up against Blueprint?

A: Like Blueprint, 960 (http://960.gs/) provides a great deal of flexibility in the types of layouts you can create. Unfortunately, it doesn't provide as much built in support for typographic styling as Blueprint. The cool thing about 960 is that the files package not only includes the necessary CSS files, but also includes some handy dandy extras, such as a paper template grid (based on the 960 framework) that you can use to sketch out your designs.

Q: What about YUI Grid CSS?

A: YUI Grids CSS (http://developer.

yahoo.com/yui/grids/) is part of the Yahoo User Interface Library. Like Blueprint and 960, it provides a fair amount of flexibility in terms of the types of layouts you can create. Unfortunately, YUI Grids CSS is somewhat complicated, making its learning curve a little steep. On the plus side, the YUI Grids CSS site has the YUI Grids Builder tool, a visual, menu based editor which allows you to rapidly create (and customize) layouts based on the YUI Grids CSS framework.

Q: I'm still a little confused about which framework to choose. Can you give me some more advice?

A: As with a lot of things, the framework you choose is entirely dependent on your needs. A good rule of thumb is to choose a framework that balances simplicity (especially if this is your first time using a framework) with flexibility, in terms of the number of different layouts you can build. Blueprint is the most popular and flexible out there. But, honestly, give them all a try. You might find one that better suits your needs. Remember, frameworks are all about alleviating your CSS workload. So, whichever one you choose, make sure it works for you, and you don't work for it!

Use Blueprint CSS rules to style RPM 2.0

With Blueprint CSS rules available, now you can go to work on RPM 2.0's XHTML. Just use the class attribute on your divs, like this:

<div id="header" class="column span-24">

So the "header" div will span 24 30-pixel columns here, which is the entire width of the page. Within that div, you might have other divs that have a span of span-16 and span-8, to get to your Golden Ratio.

Go ahead and make these additions to your copy of RPM's index.html:

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"> <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en"> <head> <title>RPM Music</title> <meta http-equiv="Content-Type" content="text/html; charset=utf-8" /> k rel="stylesheet" type="text/css" media="screen" href="stylesheets/screen.css" /> <!--[if IE]> <link rel="stylesheet" href="stylesheets/ie.css" type="text/css"</pre> media="screen, projection"> <![endif]--> k rel="stylesheet" href="stylesheets/rpm.css" type="text/css" media="screen" /> Blueprint requires you to wrap your </head> content in a div classed as "container". <body> Here, 16 is 2/3 of 24 ... so we're <div id="wrap" class="container"> using the Golden Ratio. <div id="header" class="column span-24)last"> <div id="nav" class="column span 16 last">Site Navigation</div> <div id="mast" class="column span-24 last"></div> These two <div>s are placeholders 15-to-8 is pretty much 2/3-to-1/3, </div> for content we'll add soon. with a column of spacer left over. <div id="content" class="column span-15_colborder last">Main Body Content</div> <div id="sidebar" class="column span(8)last">Sidebar Content</div> </div> Each major element of the site needs a class with an initial <div id="footer">Footer Content</div> value of "column". This tells Blueprint how to position the </body> element. The second value (span-xx) tells the framework how </html> many columns to span the element. We're still working with the index.html file. index.html

The column class is from Blueprint and lets the browser know to use Blueprint CSS rules for positioning this div.

Time to get your RPM groove on



At the Party with Hector Rivera

Hector Rivera, the king of New York Latin Soul, really makes a splash with his 1966 release "At the Party" climbing into the R&B Top 40. This classic album will have you dancing all night long and is sure to become one of the favorite records in your collection.

Hawaii with a Bongo Beat

LeRoy Holmes has done it again with this Hawaiian-Nashville fusion album, sure to take you back to the islands or the country. Pick up this record and listen to your favorite tropical classics like "The Moon of Manakoora" and the always delightful "Mahilini Mele." Great music for the whole family.

Dreamin' Wild

The hunky duo of Donnie and Joe Emerson bring you this psychedelic rock album for the ages. Their smash hit "Don't Go Lovin' Nobody Else" will have you humming for days. This is a collector's item and is only being offered for a limited time here at RPM Music. Get it while it's hot.

XMAS A Go Go

This week's mystery LP looks to be a great addition to any Christmas music collection. This just showed up one day in the RPM Music warehouse, and we've priced it to sell. Get your piece of mystery history with XMAS A Go Go.



Add the above content to the main <div> of the RPM site in the index.html file you've been working with. Think about ways to insert your content that match what they are: a bunch of similar items that aren't ordered, but may need to each be styled. You can download the album covers from Head First Labs:

http://www.headfirstlabs.com/books/hfwd/ch04







Style:

Tonight's talk: Who's more important to the user? Content and Style discuss who matters more when it comes to the user's experience.

Content:

You know, I really don't think that there's much to discuss here. I mean, the Internet is a visual medium, and people want something nice to look at. No one is going to care about the content if the site doesn't look good.

Yeah, back in the *way* early days. But today, style and design are the branding of a site. They're what gives a site its character and personality.

Well there's just as much pressure on me. What about navigation? Huh? If I don't get people from one part of a site to another, they'd never even find you. Not to mention screen size, text size, and the usability of all these things I'm doing. It's quite a bit to manage and not as easy as you may think.

What is this, 1995? Unordered lists and text links without CSS? Boring. Nothing to discuss? How quickly you forget the humble origins of the World Wide Web. Berners-Lee proposed HTML to help researchers share and update information, specifically scientific research. Content was king back in the early days.

True, but even the best designed sites with the most cutting-edge CSS won't hold up without well-written content. Graphics and one of those fancy, three-column layouts can only get you so far. I have to be clear, short, and easy to read. Otherwise, people lose focus. And don't even get me started on what happens if I can't answer the questions visitors are looking for. It's a lot of pressure!

Navigation? An unordered list and some text links should do just fine. You graphic designers...

Style:

Hey, who invited this guy?

I told you, we don't talk about that anymore. We were all young and stupid then, with a complete disregard for the separation of markup and style. By the way, where's Content?

So that was good? Now that I live in CSS documents. I'm much more useful and not so bogged down by all the stuff that **markup** is doing. It's definitely better for me. If anything, I'm really doing you a favor, too. Now you get to stand alone... for whatever that's worth.

Is that supposed to be a compliment? You know, it has been a lot easier for me not having to deal with all your s everywhere. Just don't forget to include me in your head.

Content:

<markup>

Style, are you still complaining about Content? Don't you remember when you were right there next to him? I helped you get there with tags like , <i>, and . </markup>

<markup>

Stylesheets are great, but remember how it used to be? Endlessly-nested tables, markup filled with hex colors, and the always lovable spacer GIE. </markup>

Sorry, that **markup** guy has a tendency to follow me around sometimes. However, he makes a valid point. You used to be just tags in the HTML mess.

You have cleaned up the files quite a bit by moving into the /stylesheets directory. It really has given **markup** and I a chance to get to know each other better. It's amazing what you can do without all your meaningless style tags all over the place.

```
Here's how we marked up the album covers, descriptions, and titles in our version of RPM 2.0.
                          What did you do?
          <body>
            <div id="wrap" class="container">
              <div id="header" class="column span-24 last">
                <div id="nav" class="column span-16 last">Site Navigation</div>
                <div id="mast" class="column span-24 last"></div>
              </div>
This is really
              <div id="content" class="column span-15 colborder last">
just a list of

    We put each album cover in a separate
<div> so we can position these
independent of the description text.

                <h3>New at RPM Music</h3>
albums, so
                we used an
                  div class="column span-4"><img alt="cover1"
                            src="images/cover1.jpg" /></div>
unordered
                    <h4>At the Party with Hector Rivera</h4>
list (u).
                    Hector Rivera, the king of New York Latin Soul really makes a splash with
          his 1966 release <em>At the Party</em>. Climbing into the R&amp;B Top 40, this classic
          album will have you dancing all night long and is sure to become one of the favorite
          records in your collection.
                                                                          Album titles are in a heading element
                  </11>
                                                                        (h4) to indicate their importance and

- let us style them using our CSS.
                  <div class="column span-4"><img alt="cover2"</li>
                            src="images/cover2.jpg" /></div>
                    <h4>Hawaii with a Bongo Beat</h4> <--
                    LeRoy Holmes has done it again with this Hawaiian-Nashville fusion album
          sure to take you back to the islands— or the country. Pick up this record and
          listen to your favorite tropical classics like "The Moon of Manakoora" and the always
          delightful "Mahilini Mele." Great music for the whole family.
                  <div class="column span-4"><img alt="cover3"</li>
                            src="images/cover3.jpg" /></div>
                    <h4>Dreamin' Wild</h4>
                    The hunky duo of Donnie and Joe Emerson bring you this psychedelic rock
          album for the ages. Their smash hit "Don't Go Lovin' Nobody Else" will have you humming
          for days. This is a collector's item and is only being offered for a limited time here
          at RPM Music. Get it while it's hot.
                  <div class="column span-4"><img alt="cover4"</li>
                            src="images/cover4.jpg" /></div>
                    <h4>XMAS A Go Go</h4>
                    This weeks mystery LP looks to be a great addition to any Christmas music
          collection. This just showed up one day in the RPM Music warehouse and we've priced it
          to sell. Get your piece of mystery history with XMAS A Go Go.
                  </div>
              <div id="sidebar" class="column span-8 last">Sidebar Content</div>
            </div>
            <div id="footer">Footer Content</div>
          </body>
```

index.html



How's RPM 2.0 looking?

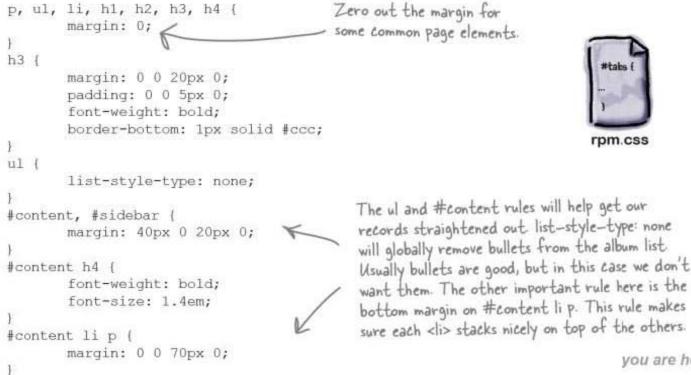
Update your version of index.html, and load it up in your browser.



Hmmm... the records don't line up properly. We need to add some style to these lists to sharpen them up.

Add some CSS to clean up the layout

Some simple additions to rpm.css should clean up things considerably:





RPM 2.0(1) is ready to test.

Update your version of rpm.css, and reload the RPM site.



150 Chapter 4

Finish off the content and navigation markup

Let's add a little more content to show the RPM owner just how far we've come. Make these changes to your copy of index.html:

<body>

We're still using Blueprint. This time, we want the navigation to span 2/3 of the page. That's 16 of the 24 columns Blueprint provides.

```
<div id="wrap" class="container">
 <div id="header" class="column span-24 last">
    <h1 class="column span-8 last">RPM Music</h1>
    <div id="nav" class="column span-16 last">
      class="active"><a title="RPM Music home" href="#">Home</a>
        a title="Music Store" href="#">Music</a>/li>
        <a title="RPM Blog" href="#">Blog</a>
        <a title="About RPM Music" href="#">About</a>
        <a title="Shopping Cart" href="#">Cart</a>
     </div>
    <div id="mast" class="column span-24 last"><img alt="rpm guys"</pre>
         src="images/rpm_guys.jpg" /></div>
    <div id="subheader" class="column span-24 last">
      <h2>RPM Music is the #4 online, midwest, <em>shrink-wrap</em>
         music retailer</h2>
    </div>
  </div>
  <div id="content" class="column span-15 colborder last">
    <h3>New at RPM Music</h3>
                                                        These are sample blog entries. Later, we
    <11>
                                                        could pull these programmatically from
     < !-- Album listings from earlier -->
                                                        the RPM blog, but for now, static text
    lets us show what things will look like.
  </div>
  <div id="sidebar" class="column span-8 last">
```

<h3>From the Blog</h3>

Nov 4 — RPM is gearing up for the holiday season and stocking up on lots of records for the post-Thanksgiving LP rush. We should be flush with inventory and we suspect that we'll have some cool new specials to announce later in the month. Check back soon for the holiday RPM madness.

Oct 20 — We just received a mysterious package in our warehouse full of Christmas albums that seem to have originated in Japan. We are currently investigating their origins and if everything checks out, we'll have them up on the site for purchase. Could be the makings of an RPM Music exclusive.

Oct 7 — New specials are up on on the site as of last night. Be sure to check out the LP's that offer free shipping.

Notice that the footer <div> is outside the main container. This lets

```
</div>
</div>
</div>
</div id="footer">
</div id="footer">
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
```

us span the footer across the entire bottom of the page.



index.html

you are here
151

We're using Blueprint to put in the Golden Ratio horizontally. But what about when we want a 2/3-to-1/3 ratio vertically?

0

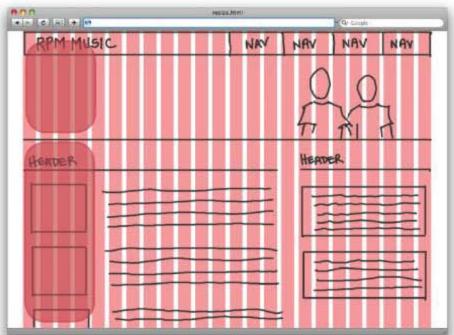
0

We want the main header image to take up 1/3 of the

vertical space ...

Vertical ratios usually require images and CSS positioning.

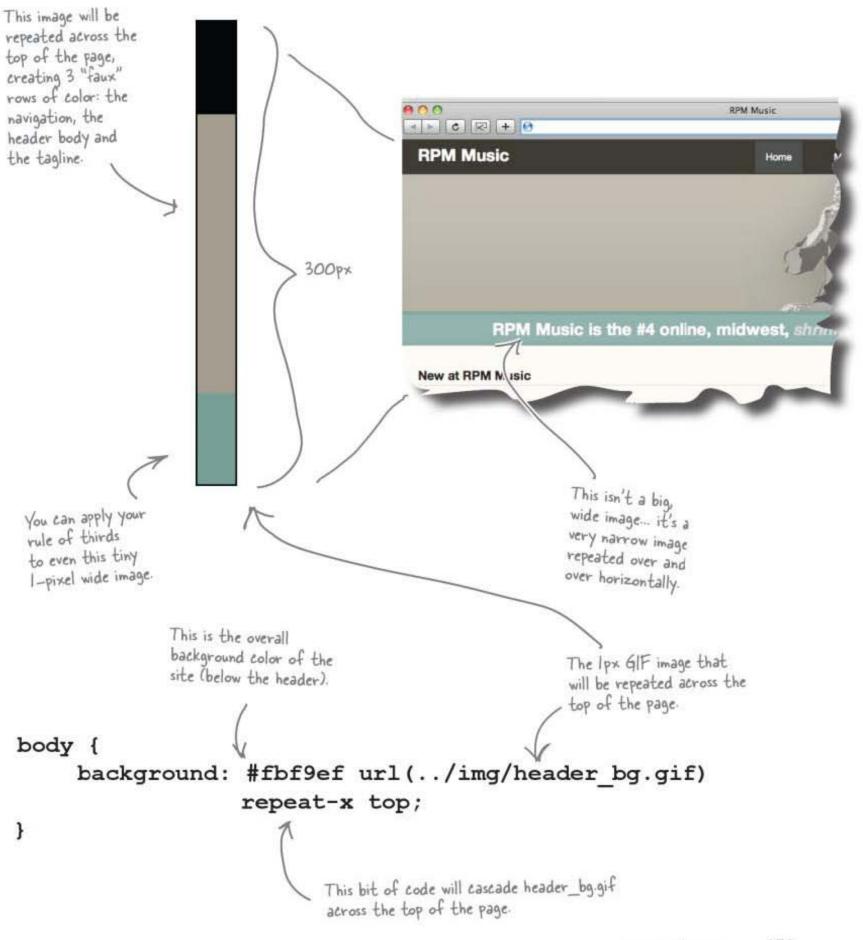
It's relatively easy to get your horizontal ratios right using a CSS grid framework like Blueprint. But how do you get a vertical ratio going, like between a main header image and the rest of a site's content?



...and the content below to be 2/3 of the space.

> You can start by sizing your image to take up about 1/3 of the typical user's vertical screen real estate. But then you're having to use a lot of different images, and possibly even the dreaded 1-pixel transparent spacer. And what about the parts of the page within the header: a navigation bar, the site logo, any headings... it can turn into a mess fast.

> A better solution is to put together a background image that has things in the correct proportions, like this:



you are here + 153

Add layout and typographic details with some more CSS

Here are some more CSS rules to help clean up and format all the new XHTML you just added. Make these additions to rpm.css, too:

```
body {
  margin: 0;
  padding: 0;
  background: #fbf9ef url(../images/header bg.gif) repeat-x top;
}
p, ul, li, h1, h2, h3, h4 {
  margin: 0;
}
                                                      RPM Music
h3 (
  margin: 0 0 20px 0;
                                                                                      - Q-
  padding: 0 0 5px 0;
  font-weight: bold;
                                                           Home
                                                                       Music
                                                                                  Blog
                                                                                            About
                                                                                                       Cart
  border-bottom: 1px solid #ccc;
ł
ul (
  list-style-type: none;
3
                                                                             Just adding a few CSS rules will
#nav {
                                                                              give us a nice-looking, functional
  height: 50px;
                                                                              navigation that also makes the
}
                                                                              site easier to use.
                           This navigation positioning will get the "tabs" to
#nav ul {
                          - stay on the right side of the layout
  float: right; <
                         A 15px padding on the
#nav ul li {
                         nav li will give the <a>
  float: left;
  padding: 15px;
                         tag room to grow and
                         form our blocks.
}
#nav ul li a {
  color: #fff;
  text-decoration: none;
                                               This will highlight
  padding: 15px;
                                                whatever <a> tag is
  font-size: 1.2em;
                                                classed with "active."
1
                                                This lets users know
#nav ul li.active, #nav ul li:hover {
                                                what page they are on.
  background: #333;
                          Ć
}
#mast img {
                                #mast img is the main image in the header.
  float: right; 🗠
                                 We want this to float over on the right
}
                                 side of the page.
```

```
#header h1 {
  padding: 10px 0 0 0;
  font-size: x-large;
  font-weight: bold;
  color: #fff;
}
#header h2 { <
                             The <h2> element in the header is the RPM tag line. This
  margin: 8px 0 0 0;
                             spans the entire page and is centered in the layout. We need
  text-align: center;
  color: #fff;
                             a little top padding to get this to line up properly.
  font-weight: bold;
#header h2 em {
  color: #ccc;
#content, #sidebar {
  margin: 40px 0 20px 0;
#content h4 {
  font-weight: bold;
  font-size: 1.4em;
}
#content li p {
  margin: 0 0 70px 0;
}
#sidebar p {
  margin: 0 0 10px 0;
ł
                                         These rules for the footer will allow it to span the entire
#footer {
                                         bottom of the site, outside of the grid container. Using
  border-top: 5px solid #928977;
                                          the same width as the grid (950px) and centering the
  background: #a9a294;
                                          content with margin: O auto gives us the layout we're
}
                                          looking for.
#footer p {
  margin: 0 auto;
  padding: 10px;
  width: 950px;
  font-size: 1.2em;
                                            0
  font-weight: bold;
  text-align: center;
                                                     Focus on design, not the CSS.
}
                                                     It's okay if you're not 100% sure on all these CSS rules.
                                                     You can pick up Head First HTML with XHTML &
                                                     CSS for more details. For now, focus on the look we're
                                     creating, and how it's balanced, organized, and follows the Golden Ratio.
```



you are here > 155

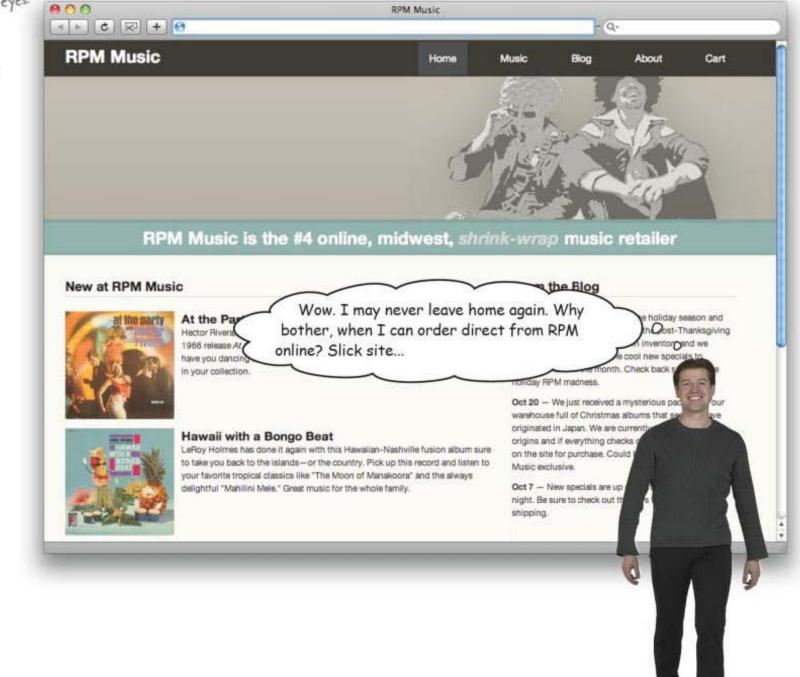
......



RPM is ready to go live.

Update index.html and rpm.css, and download any images you don't already have from Head First Labs. Then see what all your work has produced:

Now RPM looks like it belongs this side of 1999, and it's pleasing to the eyes.



This looks amazing! I never would have thought you could nail this so quickly... and I'm already getting positive responses from my customers.



BULLET POINTS

- A survey is an excellent way to get broad information about your audience.
- A persona is an archetype user that embodies and represents your audience.
- Screen real estate refers to the amount of space on the screen of the device that the designer has to work with.
- The lower your resolution, the larger items will be and the more screen real estate they will take up.
- A grid can provide order and visual logic when you are designing your layout on paper.
- The golden ratio can produce designs that are more pleasing to the eye.

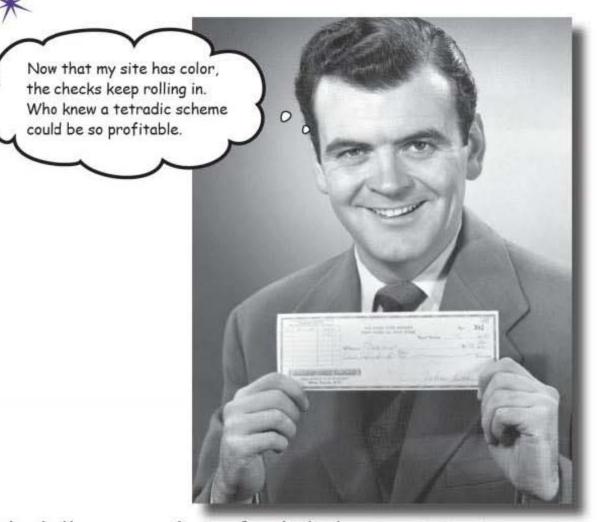
 The rule of thirds is a quick and easy way to create grids that are based on the golden ratio.

0

- A CSS Grid-based framework is a specialized CSS file that contains all of the necessary styles for laying your site out along a grid in CSS.
- The goal of a CSS Grid-based framework is to allow the designer to focus on tasks that are unique to their specific project, rather than reinventing the wheel each time around.
- Block hover navs provide users with information as to where they will end up when they click on the link.

5 designing with color



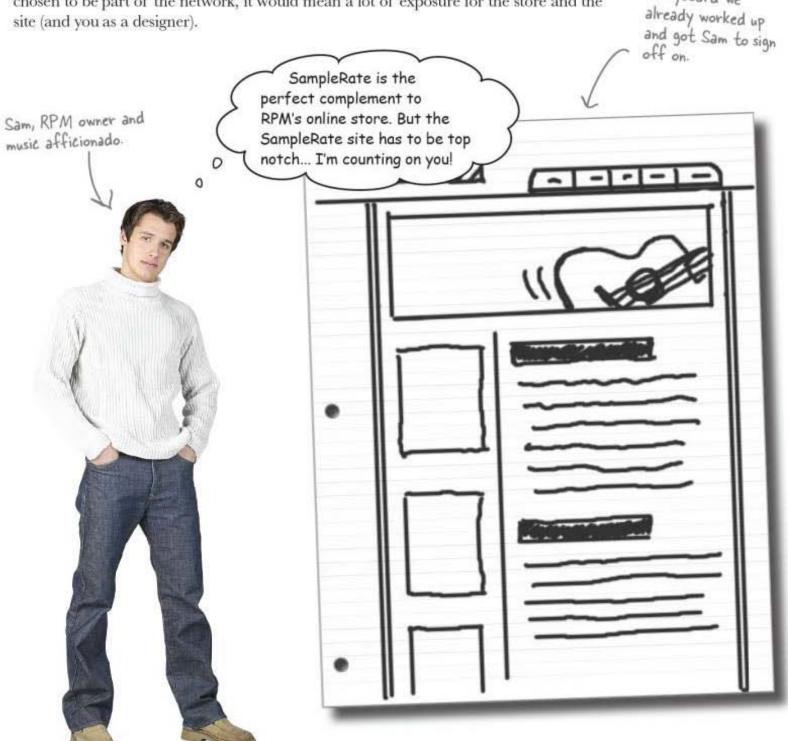


Color is the unsung hero of web design. A good color palette can draw your audience into your site, give them a powerful feeling of immersion, and keep them coming back for more. And when it comes to color and web design, it's not just about picking a good color palette, it's also about how you *apply* those colors. You can have a great color palette, but if you don't use those colors **thoughtfully**, people might avoid your site like the plague. By the end of this chapter, you'll not only be intimately familiar with the *impact* that color has on the web user, but you'll also be able to choose a great looking color palette that fits in—and even complements—your user-centered websites.

this is a new chapter 159

Help support your local music scene

The site you designed for RPM Music was a big hit. Sam, the store owner, has received such good feedback that he wants to extend his reach and create a new site that offers coverage of the local music scene called SampleRate—and he wants you to design his new website. The thing is, Sam has got it in his head that he wants the new site to be part of the 9Rules Music network (http://9rules.com/music). If this new site is chosen to be part of the network, it would mean a lot of exposure for the store and the site (and you as a designer).



Here's the

storyboard we

9Rules: The blog network gold standard

In today's web, blogs are everywhere. The problem is that there are so many that it's hard to know where to find the good ones. That's where 9Rules comes into the picture. 9Rules (http://9rules.com) is a cross between a blog aggregator and a blog network. It syndicates the posts of its members (which are conveniently organized by topic-categories, such as music, photography, science, design, and games) and provides a one stop shopping spot for those wanting to find top quality blogs.



So how do we get SampleRate onto the site? Periodically through the year, 9Rules has a 24 hour submission process. During this time, site owners can submit their blogs to be reviewed for membership. On average, 9Rules only accepts about 30 or 40 sites per submission round (out of thousands). The bottom line is that getting accepted into 9Rules is a huge deal and the goal of many designers, content producers, and bloggers.



Sometimes your choices are a bit... limited

Sam loves your storyboards, but there's a catch: he's already got a logo for SampleRate that he loves. No matter what else you come up with, you've got to make the new SampleRate site mesh in with the existing logo Sam's picked out.

This is the logo that That means we've got some choices taken care of for us, like colors. Take a Sam's set on using for look at the SampleRate logo ... what will this dictate about our design? the SampleRate site. **SampleRate** Sam personally chose this typeface, so we may want to use This is a take on a graphical that font within the site, too. EQ. For us, though, it sets the colors we've got to work with on the rest of the site. 11/11/1 Sam loves the idea of some kind . of guitar visual in the header. The SampleRate design is fairly straightforward: one main column

for content with a left-aligned sidebar for additional details.

Color has an emotional impact

So how did you *feel* when you first looked at the SampleRate logo? No matter whether you liked it or hated it, you probably felt something. That's because **color creates emotion**. For example, red is associated with excitement, purple is dignified and stately, yellow is cheerful, and blue is associated with comfort and security.

When we're designing a site that involves strong colors, we've got to think about the emotions those colors generate. Pages that use color well have a feeling that you don't get from sites that don't consciously use color as a design element or that use color poorly. You should treat color as an element, one that's just as important as navigation, images, or content.

Take a look at these bold colors and the sites that use them. You can't help but have a reaction... and that's what we want with SampleRate: a strong, **positive** reaction!



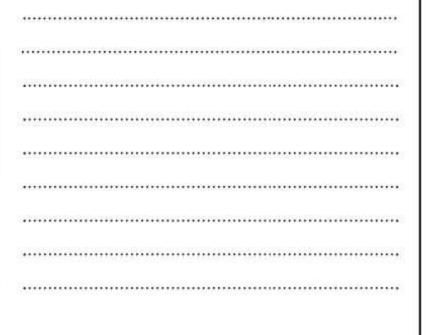




G caxtonstreetfestival.com.au

Ie-moulin-desauvage.com



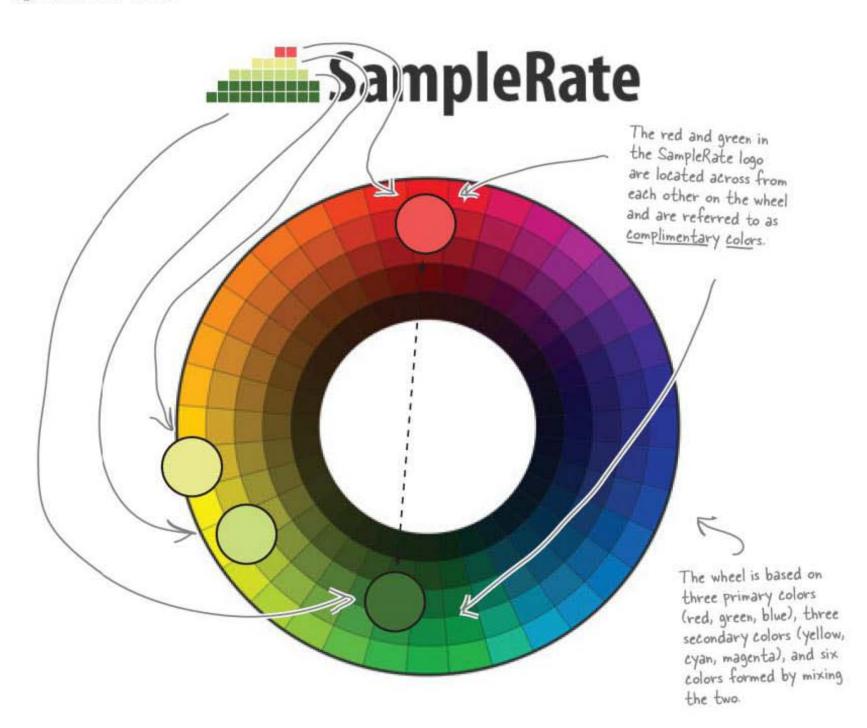




The color wheel (where it all begins)

Before we can even think about what colors we're going to use for SampleRate, let's get acquainted with the mother of all color tools in the design world—**the color wheel**. The color wheel (or *color circle* as it's sometimes called) is a circular diagram that displays different colors and shows the relationship between those colors.

Those relationships are key... and the color wheel lets us choose colors that go well together. Let's start by finding some of the colors in the SampleRate logo on the color wheel:







Use the color wheel to choose colors that "go together"

You might already be thinking, "Yeah, the color wheel is cool and all, but how do I use it to actually pick colors that work together and don't look like a dog barfed on my web page?" This is where **color schemes** come into the picture. Color schemes are more than just collections of colors. A color scheme is a certain grouping of colors that goes well together.

And here's the kicker: all good color schemes start with a single color and your handy-dandy color wheel.

Sometimes you'll hear an individual color in a scheme called a "swatch" of color.



First, choose your **BASE** color

The site above has a fairly deep green all over the place. That's the **base color** of the site: the color that most represents the visual metaphor and that all other colors are based on. For SampleRate, we'll need to begin by choosing a base color. Then, we base everything else—other colors, their depth, their hue—off of that base color.

But don't get too stressed out! There's no right or wrong base color... and you can always abandon a scheme that you end up not liking and start over.

Use the triadic scheme to create usable color patterns

Color schemes come in all shapes and sizes—and they all have fancy-sounding names (monochromatic, analogous, complementary, triadic, tetradic, etc.). Don't worry, once you get past their names, they're really just pretty simple ways to pick different kinds of color palettes that you can use for your site. Think of color schemes as just another helpful tool in your web design toolbox.

The **triadic color scheme** is one of the most commonly used color schemes around. Triadic uses **three** colors, *equally spaced* around the color wheel. So once you pick your base color, you can just draw an equalateral triangle (three equal sides), and pick your other two colors:

Because all the colors in a triadic scheme are equally spaced around the wheel, any color in the palette can be the base.

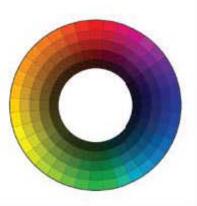
When we triadide each can be equal around For you buffs that's all the

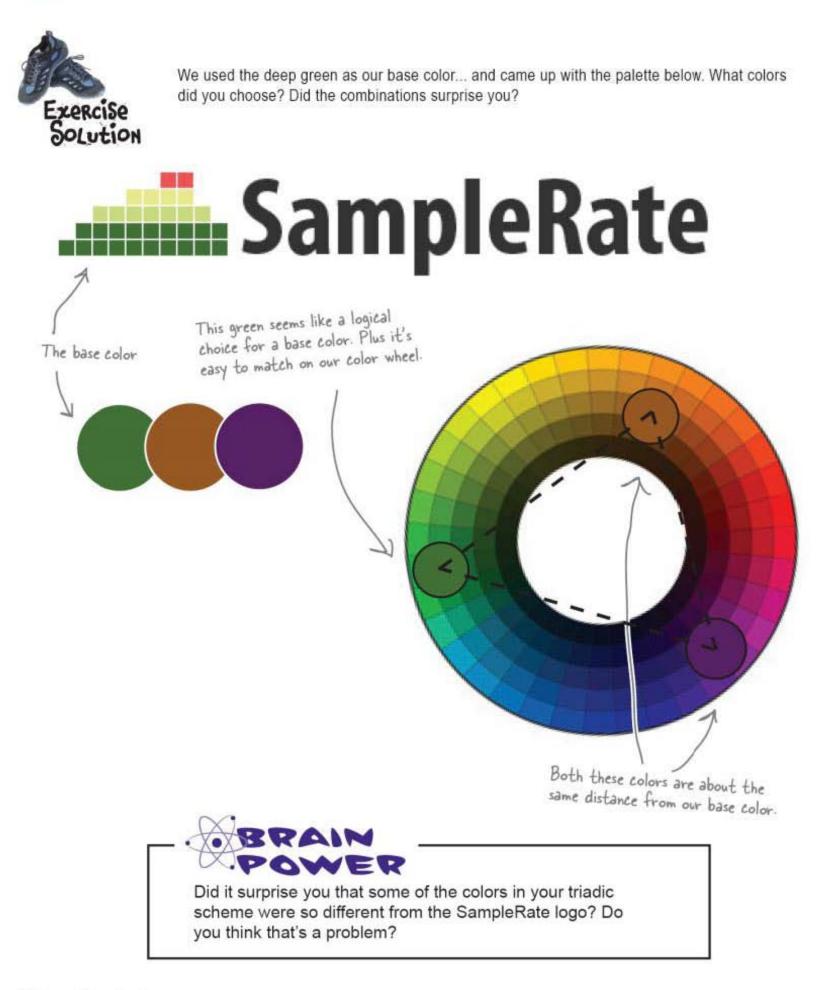
When using the triadic scheme, each color should be equally spaced around the wheel. For you math buffs out there, that's 120 degrees all the way around.

Exercise Create a three-colo start with a base co

Create a three-color palette based on the SampleRate logo that Sam provided. Make sure you start with a base color and build your palette from there.







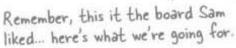
Our standard XHTML

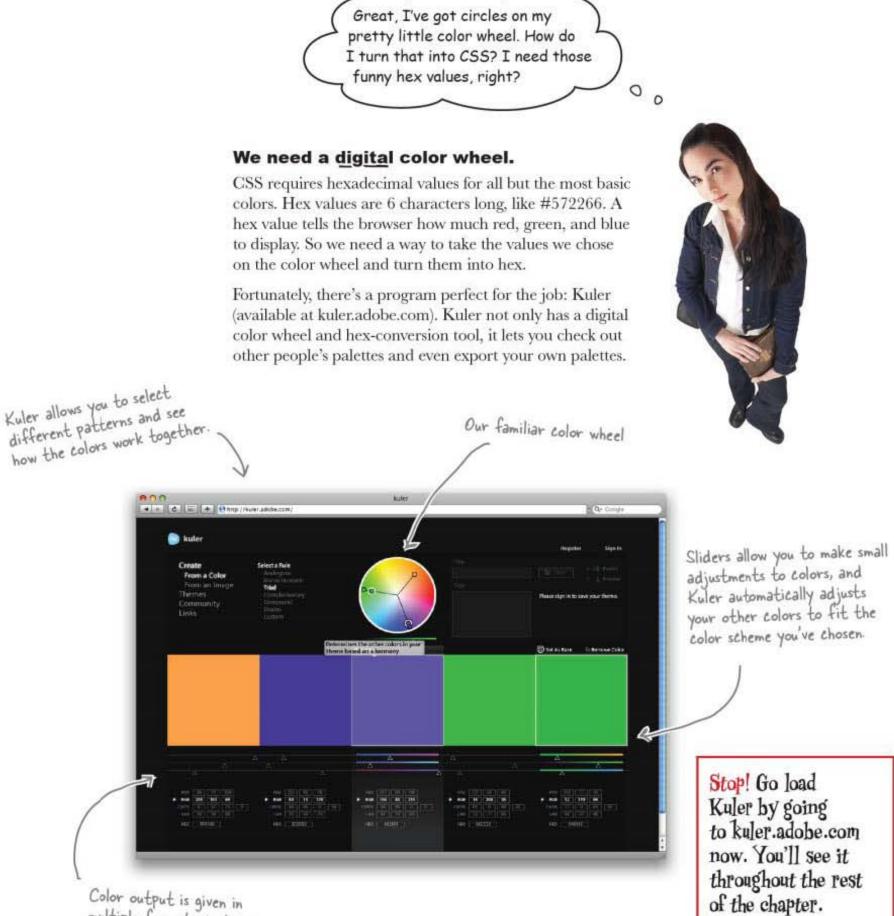
Get started on the SampleRate markup

```
Strict header.
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en"> 🍝
<head>
  <title>Sample Rate</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  k rel="stylesheet" href="stylesheets/screen.css" type="text/css"
        media="screen" />
                                 Make sure to include your stylesheet, which should be
- located in a directory called /stylesheets.
</head>
<body>
  <div id="header">
    <div id="logo"><img alt="sample rate logo" src="images/samplerate2.gif" /></div>
  </div>
  <div id="nav">
    <a class="active" title="title" href="#">Home</a>
      <a title="title" href="#">Archive</a>
      <a title="title" href="#">Music</a>
      <a title="title" href="#">About</a>
      <a title="title" href="#">Contact</a>
    This is the quitar image that the owner
  </div>
                                              wanted to see on the site.
  <div id="wrap">
    <img id="masthead" alt="header image" src="images/gitfiddle.jpg" width="740px" />
    <div id="content">
      <h1>Heading One</h1>
     Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce
        consequat arcu in mauris.
     <h1>Heading Two</h1>
                                                                             You may want to
     Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce
                                                                             add some more
        consequat arcu in mauris.
                                                                             dummy text to fill
    </div>
                                                                            out the page as we
    <div id="sidebar">
                                                                            add color and style.
      Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce
         consequat arcu in mauris.
    </div>
    <div id="footer">
      Copyright © SampleRate and RPM Music, all rights reserved.
    </div>
  </div>
                                                               .....
</body>
                                              Typing-challenged? Go online!
</html>
                                              If you don't want to type all this in, you can download
                                              the SampleRate files from the Head First Labs website.
                                              You may want to work through these examples on your
                                own, though ... who knows what you might learn in the process?
          index.html
                               ......
```

Create the basic page layout with CSS

```
body {
                                                   #content {
       margin: 0;
                                                          float: right;
       padding: 0;
                                                          margin: 10px 0 0 0;
       fcnt-family: Verdana, sans-serif;
                                                          padding: 0 20px 0 20px;
}
                                                          width: 540px;
h1 {
                                                   #sidebar {
       margin: 0 0 5px 0;
                                                                                         screen.css
}
                                                          float: left;
                                                          margin: 20px 0 0 0;
p (
       margin: 0 0 20px 0;
                                                          padding: 0 20px 0 20px;
                                                          width: 180px;
       line-height: 1.4em;
}
#header {
                                                   #footer {
       margin: 0;
                                                          clear: both;
                                                          text-align: center;
       padding: 20px 0 10px 0;
}
                            This CSS will serve
                                                                  Content chunks below floated
#header #logo {
                                                   #footer p {
                            as the frame for our
                                                                  <div>'s must be cleared so they
       margin: 0 auto;
                                                  }
                            layout Later, we'll add
       width: 800px;
                                                                  appear below those elements.
                            more color and some
Ł
                            detail to let Sam really
#nav {
       background: #ccc;
                             get a feel for our design.
                                                         TITT
}
#nav ul (
       margin: 0 auto;
       width: 800px;
       list-style-type: none;
#nav ul li {
       display: inline;
}
#nav ul li a {
       text-decoration: none;
                           Like we've done before,
#nav ul li a.active {
                           use margin: O auto to
}
                           center the layout in the
#wrap {
       margin: 0 auto;
                           browser.
       width: 800px;
#masthead {
       margin: 20px 20px 0 20px;
}
```





Color output is given in multiple formats, including HEX and RGB.

> 175 you are here >





minus any

color, is

Use Kuler to take the base color you selected in the previous exercise and build a digital color palette based on the triadic scheme. Once you have your palette, add the hex color values to your SampleRate CSS file and see how they work together. Use your colors for the background colors of the various <div>s in the SampleRate site.

> There are more < div>s than colors in a threecolor, triadic scheme. Try picking some extra colors that are a little lighter or darker than your main three colors to fill out SampleRate.



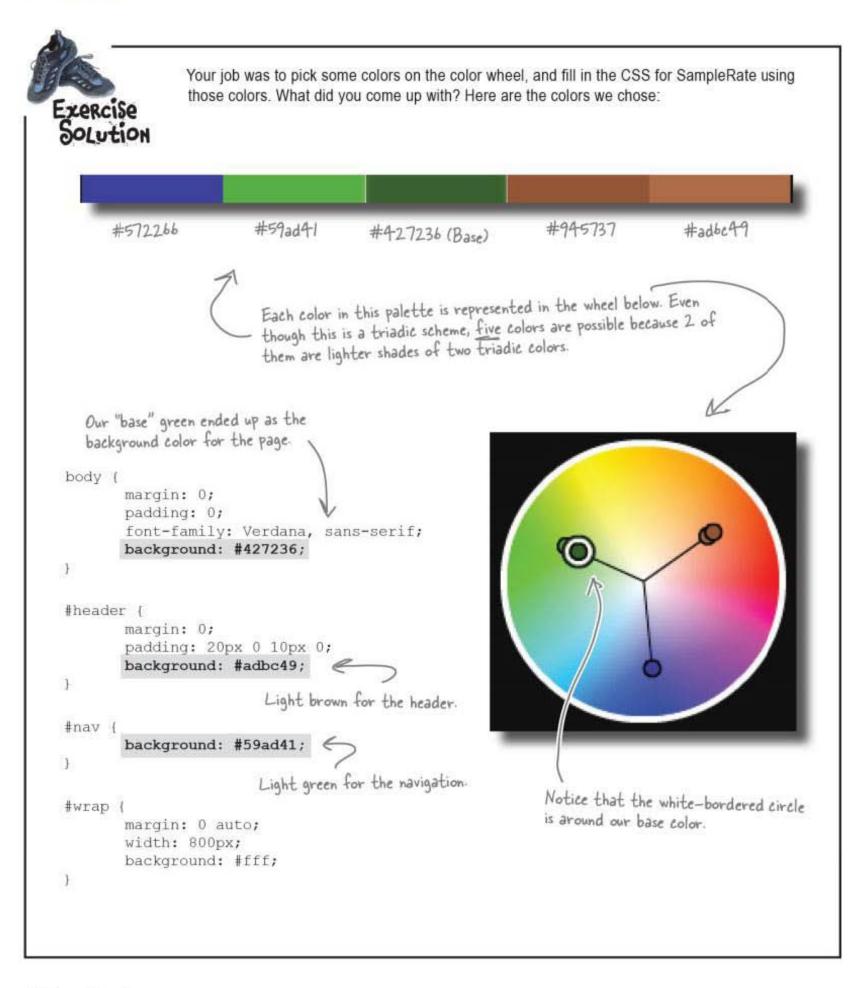


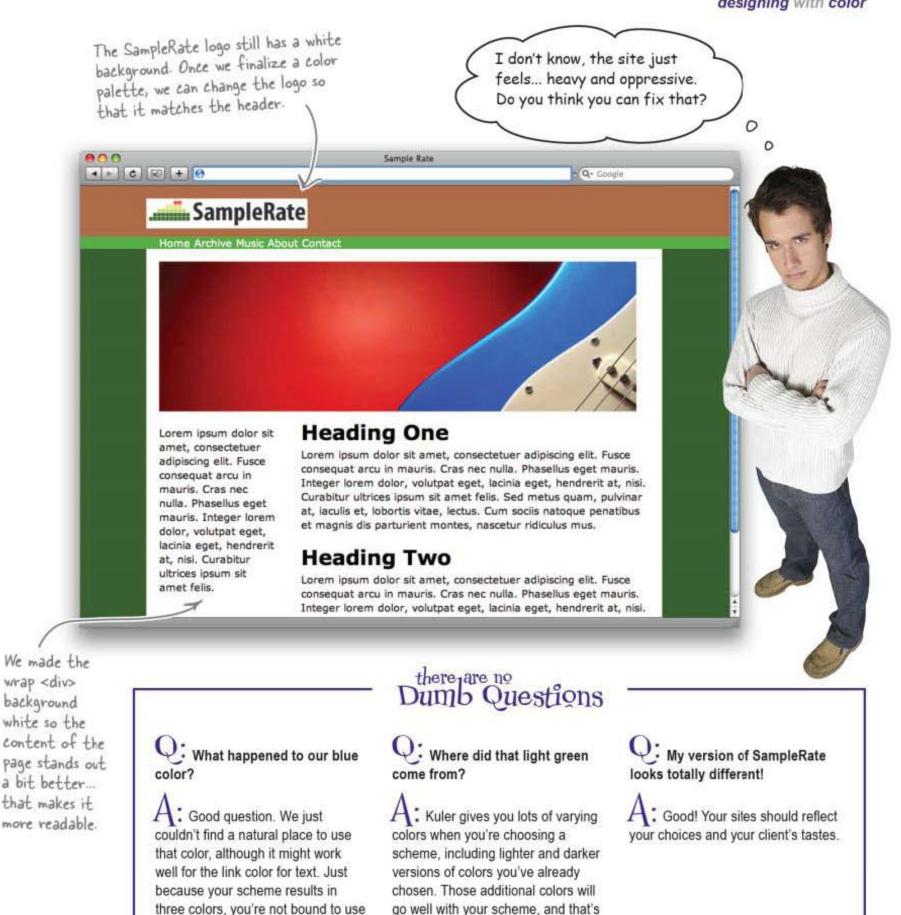
Kuler's a lot more accurate than choosing colors by hand. You might get different colors than we did back on page 172 when we chose colors by hand.



The handle with the white ring represents your base color in Kuler.







where our light green came from.

three colors, you're not bound to use

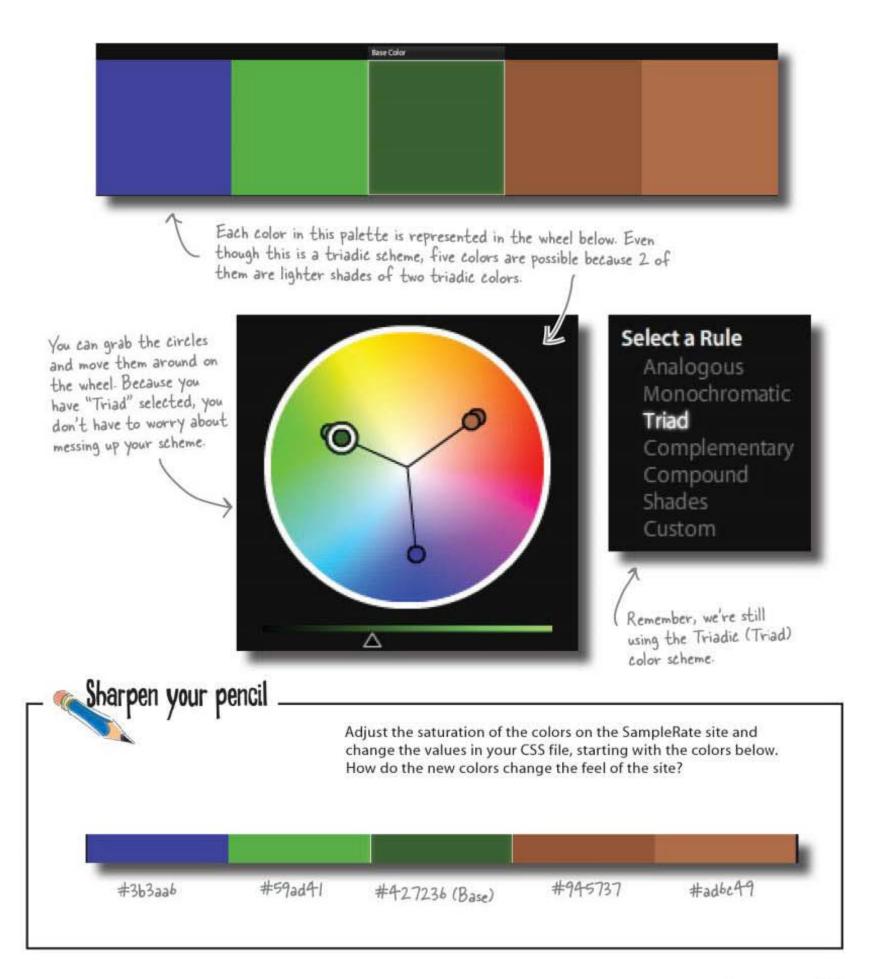
them. Always trust your judgment over a color wheel or best practice. Ultimately, you're the designer!

The opposite of heavy is... light

Sam thinks SampleRate looks heavy. That's not surprising... remember, color causes people to feel things more than any other type of web element. So what do we do about a site feeling heavy? Well, we try and make the site feel *lighter*.

The great thing about the triadic color scheme (or any other type of color scheme) is that as long as you stick to the general location of a color on the color wheel, you can change its saturation. **Saturation** is just a fancy design term for the darkness or lightness of a color. So we can lighten the saturation of our color scheme... it's the same colors, but a lighter-feeling result.





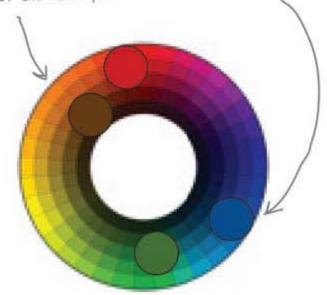
Hmm, that's sort of boring now. What else can you show me? 0 SampleRate 0 Lorem ipsum dolor sit Heading One amet, consectetuer Lorem ipsum dolor sit arnet, consectetuer adipiscing elit. Fusce adipiscing elit. Fusce consequat arcu in mauris. Cras nec nulla. Phaselius eget mauris. consequat arcu in Integer lorem dolor, volutpat eget, ladnia eget, hendrerit at, nisi. mauris. Cras nec. Curabitur ultrices ipsum sit amet felis. Sed metus quarn, pulvinar nulla. Phasellus eget at, inculis et, lobortis vitae, lectus. Cum sociis natoque penatibus mauris. Integer lorem et magnis dis parturient montes, nascetur ridiculus mus. dolor, volutpat eget, lacinia eget, hendrerit Heading Two at, nisi. Curabitur ultrices ipsum sit Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce amet felis. consequat arcu in mauris. Cras nec nulla, Phasellus eget mauris. Integer lorem dolor, volutpat eget, lacinia eget, hendrerit at, nisi. Curabitur ultrices ipsum sit amet felis. Sed metus quam, pulvinar at, laculis et, lobortis vitae, lectus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

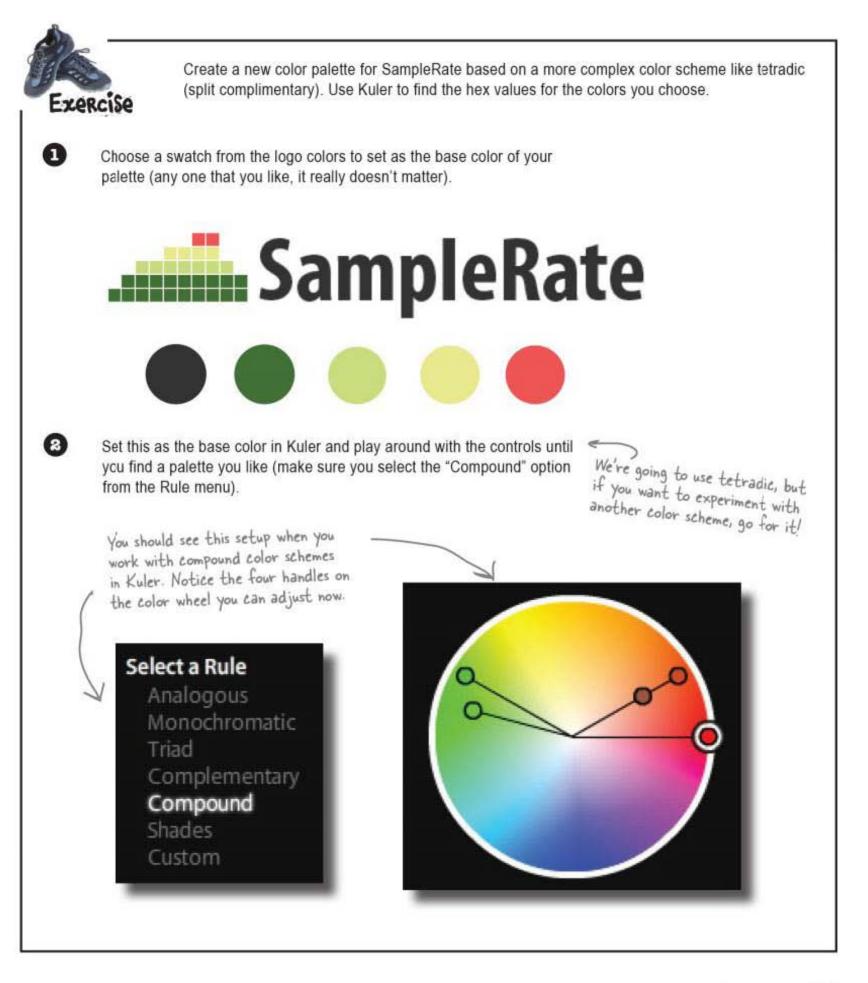
Create a richer color palette with the tetradic color scheme

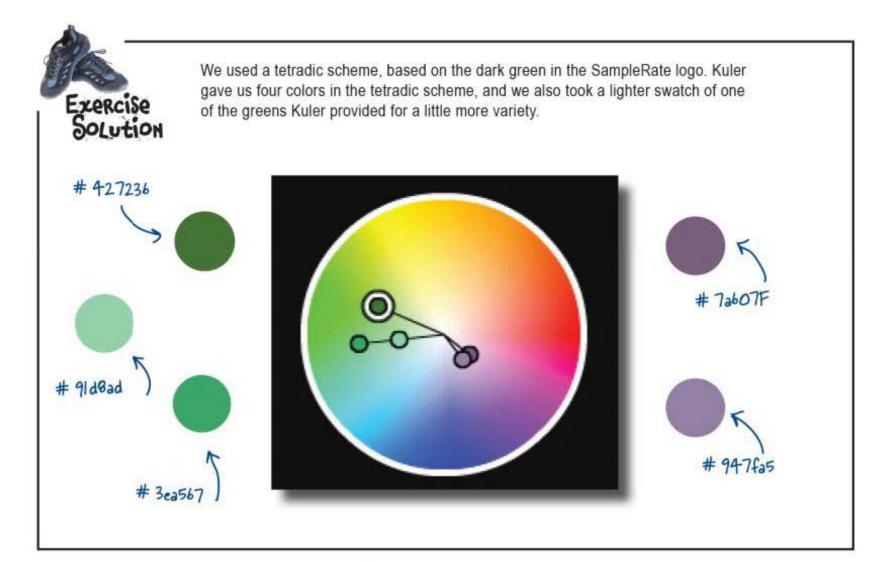
When people find a site boring, that may mean the colors are too light... but we already know that Sam doesn't like a darker triadic color scheme for SampleRate. So if you can't go darker, consider adding colors. In other words, go from a three-color scheme to a four-color scheme.

One of the most common four-color schemes is the **tetradic color scheme**. The tetradic color scheme (which is sometimes also called the **double complementary scheme**) is the richest of all the schemes because it uses four colors arranged into two complementary color pairs.

Be careful, though. Four different colors is a lot to deal with, and you can't use all four colors equally or your site will look like a mess. But for adding some extra complexity and energy to a site, a fourth color can really make a difference. Colors in a <u>tetradic</u> scheme are in pairs across from one another and about 20 degrees to the left or right of the other pair.







Q: Are there only two color schemes? Triadic and tetradic?

A: No, there are a bunch of others. Most of the them are simpler schemes: monochromatic, analogous, complementary, and split complementary. All of the schemes follow the same general principles as triadic and tetradic. They find colors related to each other by certain angles that go well together. For more information on these and other color schemes, check out http://www.color-wheel-pro.com/colorschemes.html

Dumb Questions

Q: Do I really need to use a color scheme to create a good color palette? Seems like a lot of work to go through when I can just pick some colors off the color wheel.

A: Sure, you could randomly choose some colors off of the color wheel for your color palette. However, most of the time you are going to get at least two colors that clash. Color schemes are based on solid color theory that has been around for ages. They are designed specifically to help you create harmonious color combinations. Q: What if I want lighter colors than the ones available in the color wheel?

A: Colors wheels can either get progressively lighter or darker as you get closer to the center. If lighter colors are what you're after, just drag your colors toward the center of the wheel. Or, you can adjust the hue or opacity of a darker color until you've got the lighter swatch you're looking for.

designing with color

0

0

So once we've chosen our colors, aren't there some rules we can apply to make sure we use them correctly on the page?

Although there's definitely a Golden Ratio!

There's no golden rule for color placement.

There really isn't a set of rules that will always work for all sites. What looks great for one site's structure could look awful for another site's layout and design. On top of that, you've got to match your site's theme and visual metaphor.

But, there are definitely some *principles* you can apply:

Create contrast

If you want to separate different areas of your layout (say a main column and sidebar), use **contrasting** colors. This contrast creates a border between two areas. That border lets users know that the two areas are different and probably have different functions or uses within the context of the site.

> adipiscing elit. Fusce consequat arcu in mauris. Cras nec

The background of the page and the text area use highlycontrasting colors. This makes the content of the page clearly separate from the overall site background.

Emphasis-o-matic

If you want to emphasize certain areas of your layout, use the most dominant color in your color palette. If you surround an important area of content (like a header or page title) with the palette's dominant color, that area will be emphasized.



Here, contrast and a dominant color are used. There's a contrast between the Home tab and the dark background. But the tab is emphasized against the very dominant brown background.

Let's update the SampleRate CSS

Here is the completed CSS for the SampleRate site. The colors for the design are blank (and represented by the grey bars). Get the CSS linked up with your XHTML and double check the layout. We'll add the color in the next few pages.

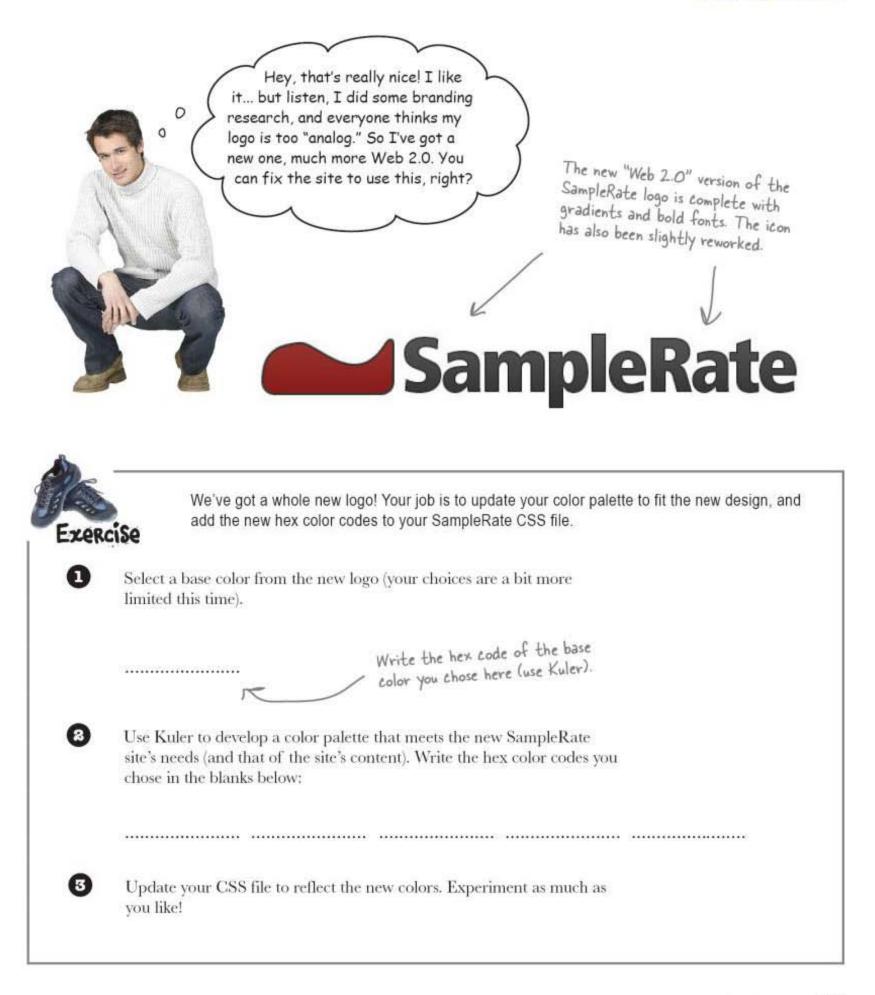
```
All the blanks are places we
                                                                   need colors ... we'll add those in
                                                                   over the next few pages.
body {
                                             #nav ul li a.active {
      margin: 0;
                                                    background: #eee;
      padding: 0;
                                                    color: #333;
      font-family: Verdana, sans-serif;
      color: #333;
                                              #wrap {
      background: .....
                                                    margin: 0 auto;
                                                    width: 800px;
                                                    background: #eee;
h1 {
                                                    border-left: 10px solid .....
      margin: 0 0 5px 0;
                                                    border-right: 10px solid
}
p (
                                             #masthead {
      margin: 0 0 20px 0;
      line-height: 1.4em;
                                                    margin: 20px 20px 0 20px;
                                                    border: 10px solid #ddd;
                                                                               Borders around the
#header (
                                                                               main <div> provide
      margin: 0;
                                              #content {
                                                                               some contrast.
      padding: 20px 0 10px 0;
                                                    float: right;
      background:
                                                    margin: 10px 0 0 0;
                                                    padding: 0 20px 0 20px;
#header #logo (
                                                    width: 540px;
      margin: 0 auto;
      width: 800px;
                                             #sidebar {
                                                     float: left;
#nav {
                                                    margin: 20px 0 0 0;
      background:
                                                    padding: 0 20px 0 20px;
                                                    width: 180px;
#nav ul [
                                             #footer {
      margin: 0 auto;
      padding: 20px 10px 20px 10px;
                                                    margin: 20px 20px 0 20px;
      width: 800px;
                                                    padding: 10px 20px 10px 20px;
      list-style-type: none;
                                                    clear: both;
                                                    background: .....
#nav ul li (
                                                    text-align: center;
      display: inline;
                                                    color: #fff;
#nav ul li a (
                                             #footer p (
      padding: 10px 20px 20px;
                                                    margin: 10px 0 0 0;
      text-decoration: none;
                                                    font-size: small;
      color: #fff;
                                             }
      font-weight: bold;
1
```



Write the hex values for your colors in the spaces where you think the color fits best. Think about contrast and the best way to make the content stand out. We'll build these colors into our actual design in just a few pages. Remember, white space is your friend! Use #ffffff for white.











Your Web Pesign Toolbox

Color, tetradic, triadic, split complementary... lots of new terms, and you've handled them all. Go back to the other sites you've worked on and update them with color, too.

BULLET POINTS

- Color has a powerful impact of your site's visitors.
- Use the color wheel to choose colors for your site's design.
- Color schemes are tools to help you choose a harmonious color palette.
- The triadic color scheme has three colors spaced equally from around the color wheel.
- The triadic color scheme is popular because it provides strong visual contrast while retaining balance, color richness, and harmony.

- The triadic scheme is not as contrasting as some other schemes.
- The tetradic color scheme has 4 colors arranged into two complementary color pairs.
- The tetradic color scheme is the richest of all the schemes.
- The drawback to the tetradic scheme is that it's sometimes hard to harmonize.
- Use a tool like Kuler to create color palette (and get the hex values of the colors in the palette).

6 smart navigation



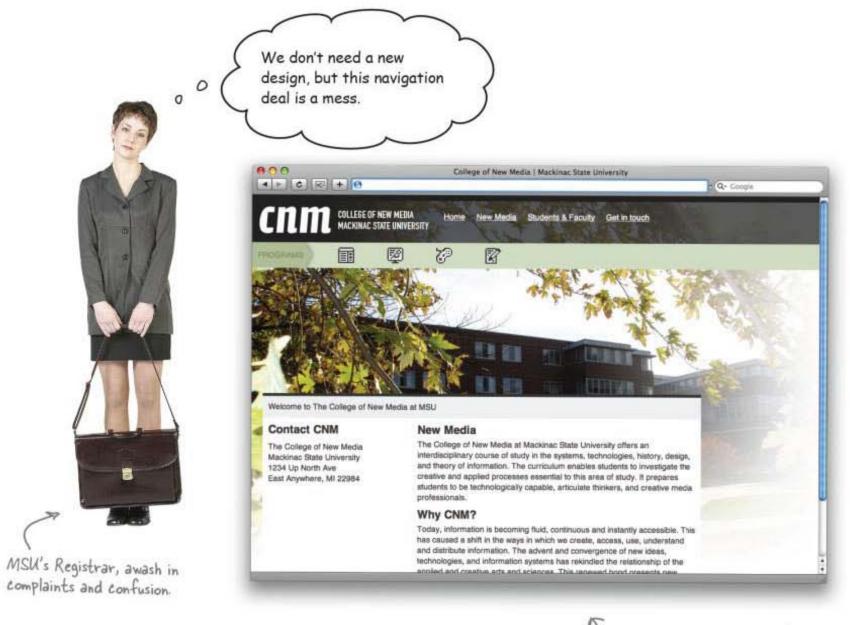
What would the web be without navigation?

Navigation is what makes the web such a powerful information medium. But here's the thing: navigation is a lot more than just whipping up some cool-looking buttons and slapping them into your design. Building smart navigation starts with your information architecture and continues through your entire design process. But how does it work? How do you really make sure your users never get lost? In this chapter, we'll look at different styles of navigation, how IA guides your page links, and why icons (alone) aren't always iconic.

School's back in session

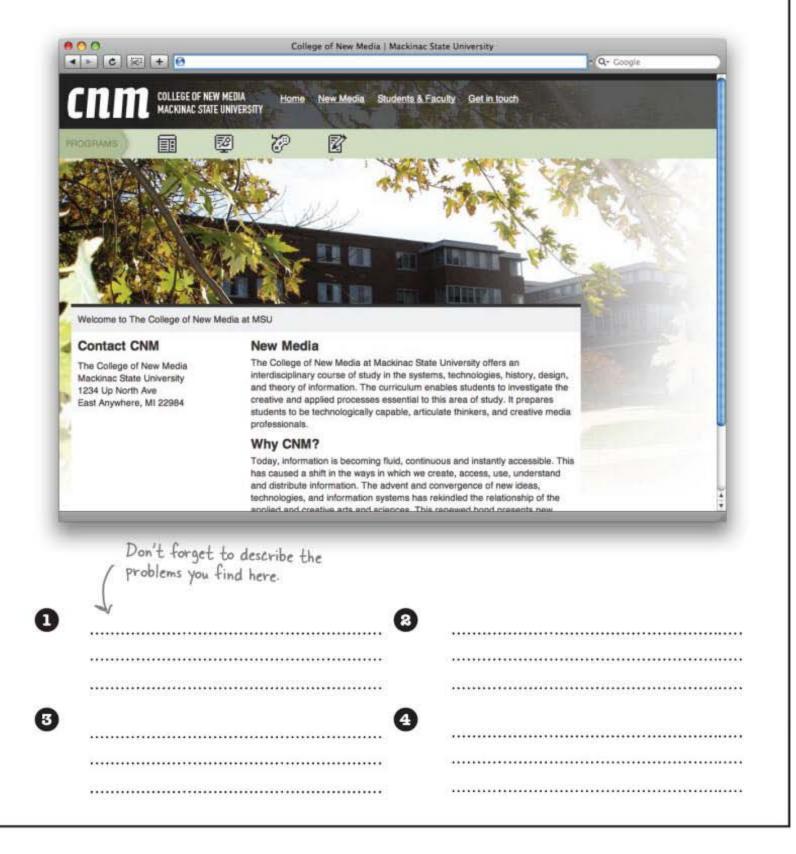
The College of New Media at Mackinac State University has a bit of a problem. They've just paid a bundle to a web design firm to redo their site. The new site looks great...but nobody can find anything anymore! Professors can't find their papers and documents, teaching assistants can't even figure out what classes they're teaching, and new students need to register for the next semester's classes now.

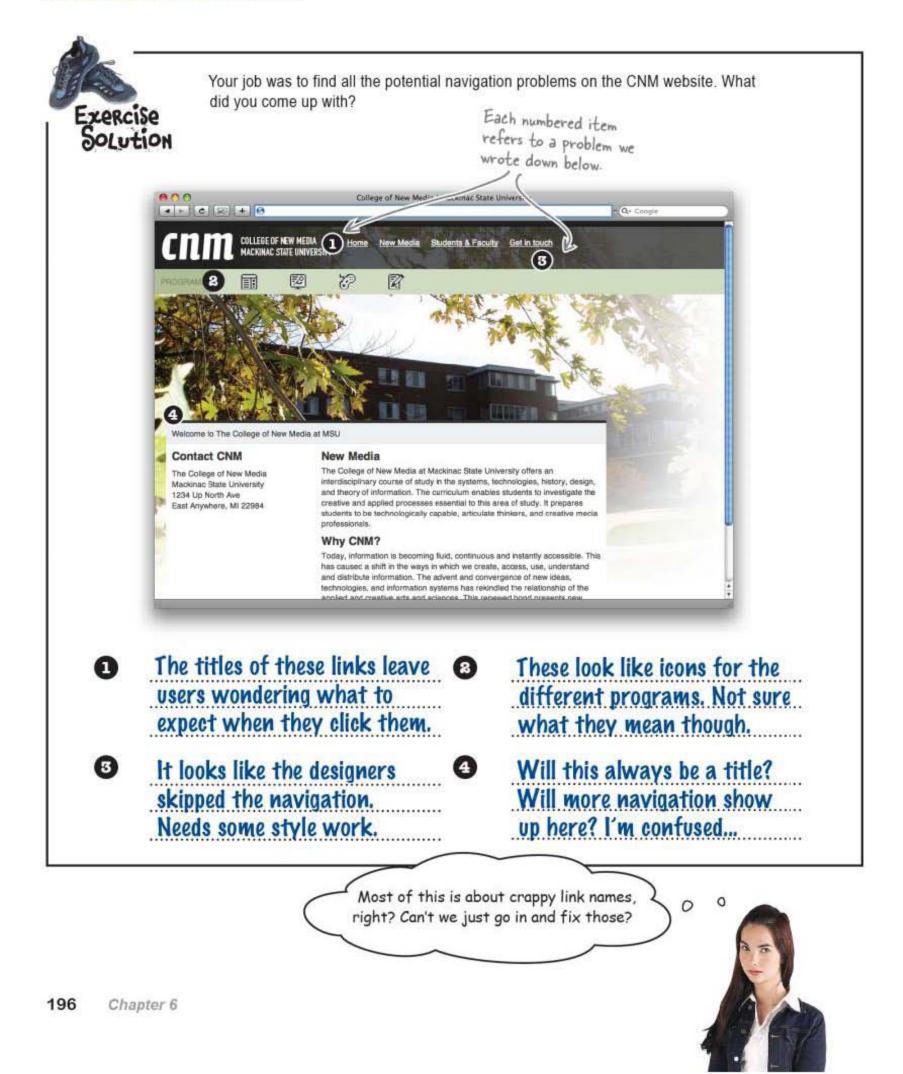
The college needs you to unravel their navigation nightmare, and do it fast. Otherwise, they're going to lose students **and** faculty!





Take a look at the screenshot of the current CNM site. First, circle all the different areas cf navigation. Then, list any problems you find in the blanks below the screenshot. Be thorough, and remember, both students and faculty are using this site.

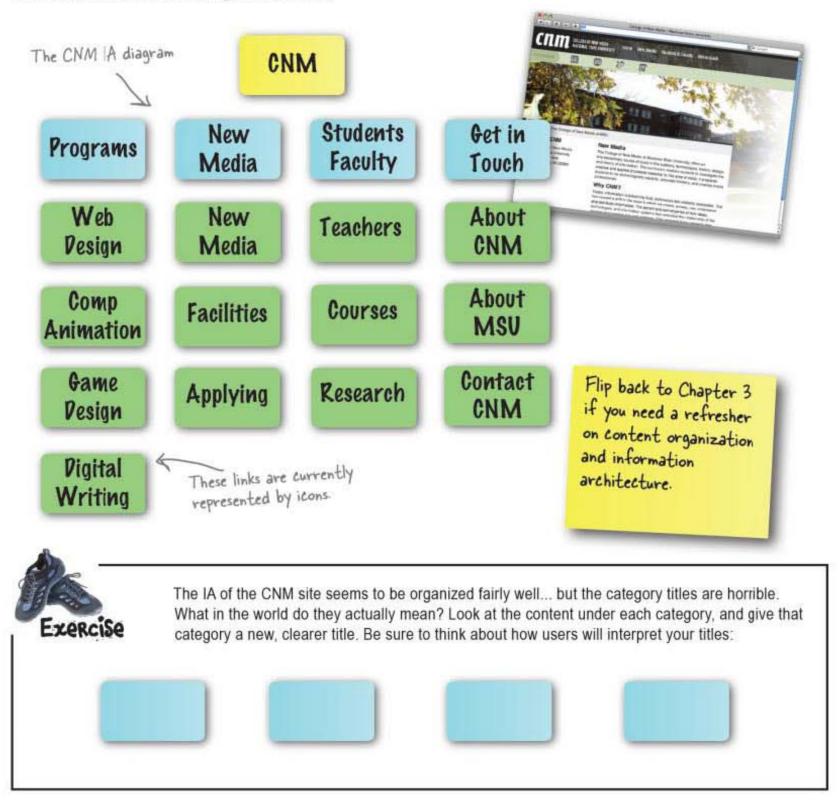


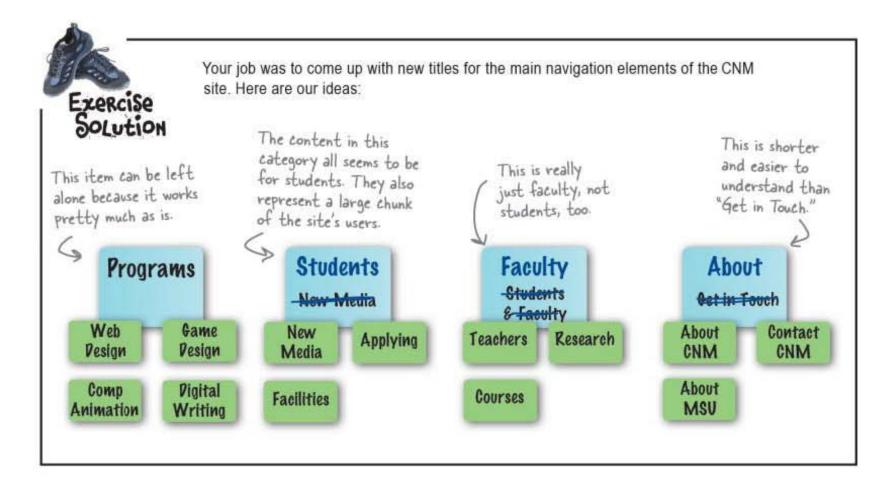


The first step in good navigation is good IA

The names of your links are more than just helps for your users. They're actually the categories that organize your entire site. And most of the time, a bad link name means someone wasn't thinking about navigation way back at the information architecture stage.

Let's see what the CNM IA diagram looks like:





What's really in a name, anyway?

The names that you give your navigational elements (links, buttons, etc.) have a direct impact on the usability of your site. In other words, **names are a really big deal** on the Web. You should put a lot of thought into the name you use for each of your IA categories and navigational elements. Here are some general guidelines to help you come up with good names:

Keep names <u>short</u>. Make sure that your names are as short as possible. You want your user to be able to scan a name quickly. One word is ideal, and only use two if you really need that extra word. Avoid using words like "the" or "a" in names, too. Those are just wasted space.

Keep names descriptive. Make sure that the name you choose is as clear and straight to the point as possible. You don't want your users to look at a link and be confused. If you're not 110% sure what a name means, your users sure won't be, either.

Dumb Questions

Q: What if I simply can't make the name of the navigational element one word?

A: More than one word is ok as long as its **completely necessary** to tell your user exactly where they will end up when they click the nav element. What you name your elements should be linked to your desire not to lead the user down a path they didn't want to travel, rather than being clever or articulate.

2



Download the College of New Media site files from the Head First Labs site.

Visit http://www.headfirstlabs.com, find the Web Design link, and click through to the Chapter 6 sample files.

O Update the main CNM navigation links.

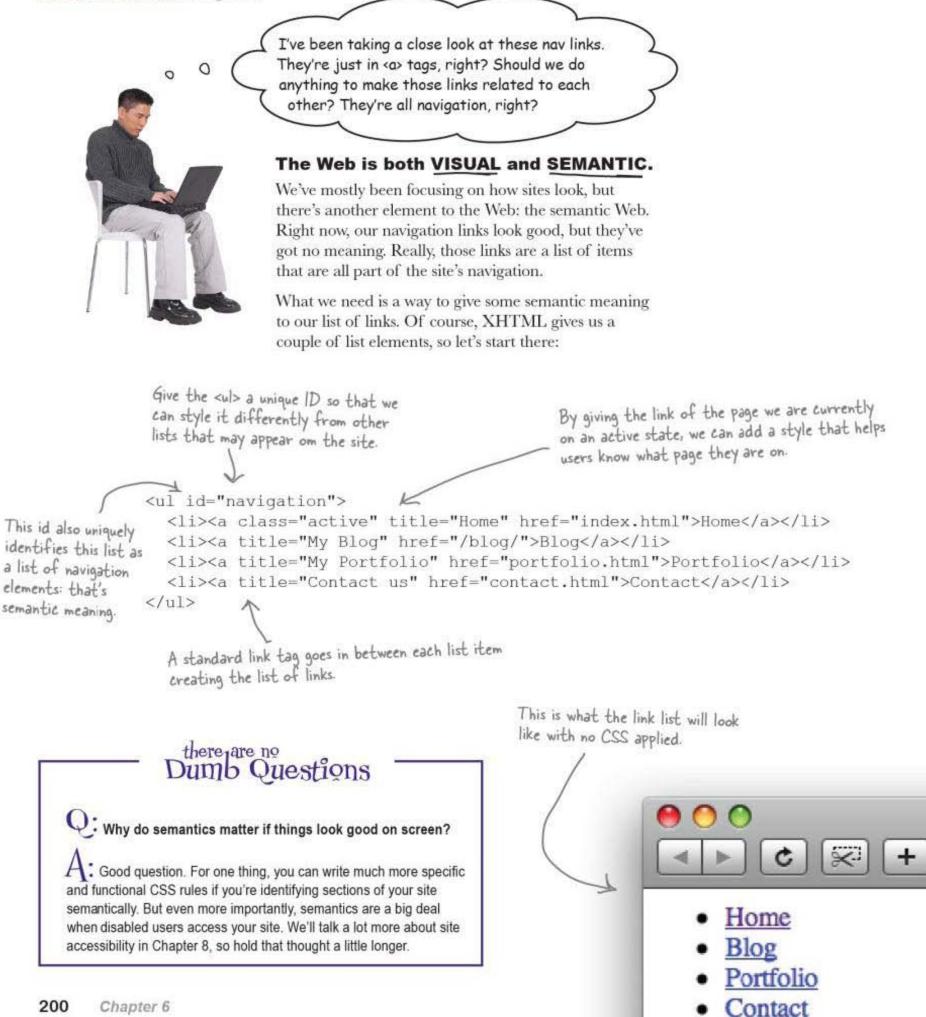
```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <title>College of New Media | Mackinac State University</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  k rel="stylesheet" href="stylesheets/screen.css"
        type="text/css" media="screen" />
</head>
<body>
  <div id="header">
   <img alt="cmn logo" src="images/cnm logo.png" />
    <a class="active" title="CNM Home" href="index.html">Home</a>
      <a title="#" href="#">Students</a>
      <a title="#" href="#">Faculty</a>
      <a title="#" href="#">About</a>
    Update the links in the
  </div>
                                                navigation paragraph to
  <!-- rest of HTML -->
                                               reflect your new category
</body>
                                               titles from the 1A diagram.
</html>
```

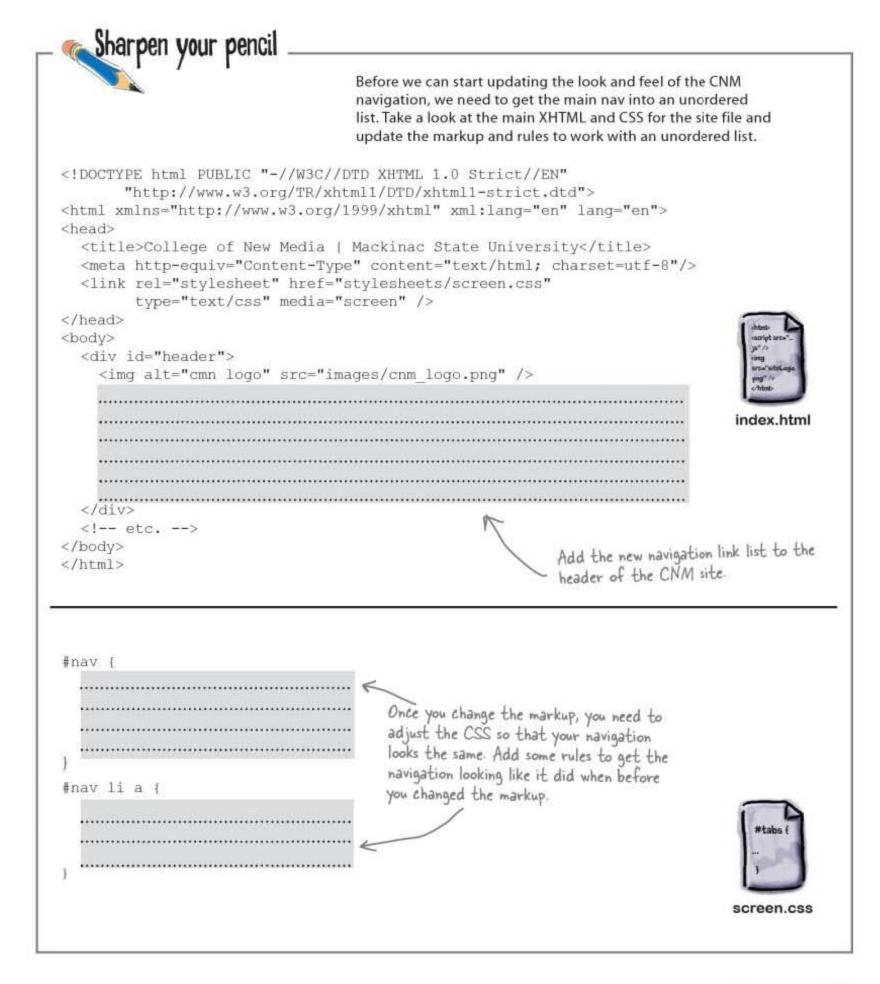
3

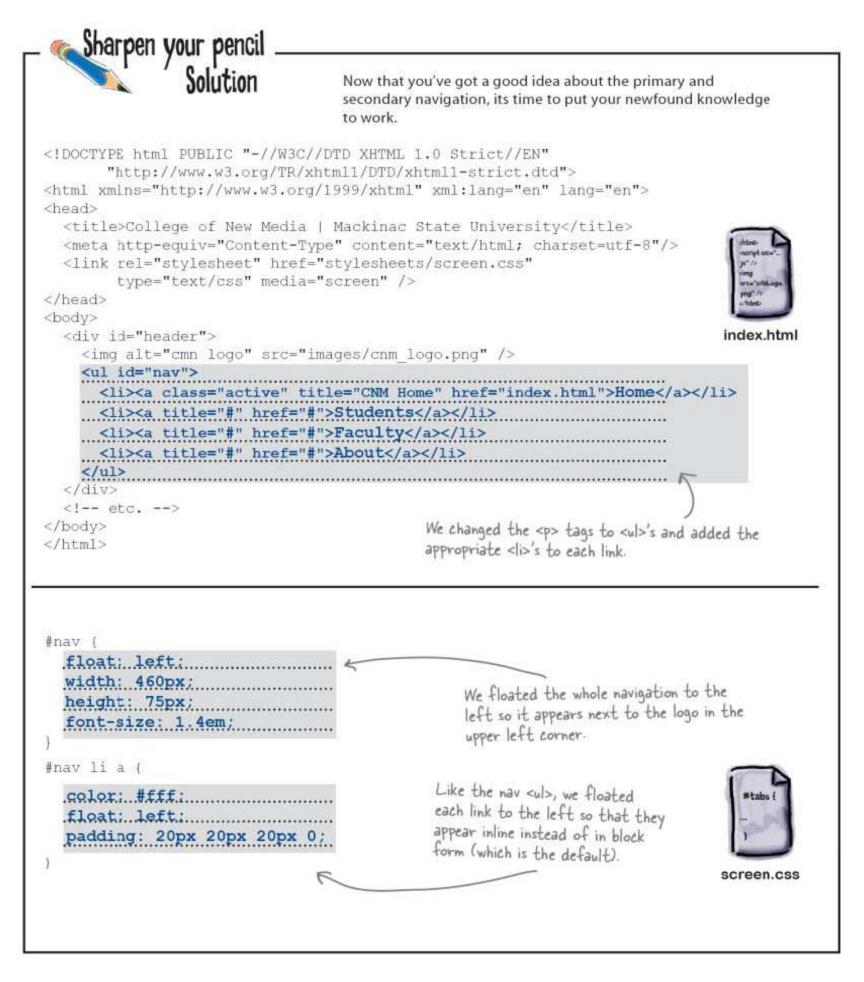
Check out the site and make sure things look right.



unordered lists and navigation









Update your versions of index.html and screen.css, and take the new CNM site for a test drive. How do things look? Better? Worse? The same?



horizontal navigation

Approach #1: Horizontally-tabbed navigation

Many of today's modern, standards-based designs feature horizontal tabbed navigation systems. This type of design works great with a one or two column layout (though they tend to get a little stretched out the wider a layout gets). A horizontal tabbed navigation system also work great for your primary navigation because if the links are put at the top of your page, they attract the attention and focus of your user. The whole idea of tabs also gives the impression of the site having different sections—which it does.

Here's what horizontal tabs usually look like in XHTML and CSS:

Like before, these links are in a list and semantically marked as navigation.

```
<a class="active" title="Home" href="index.html">Home</a>
<a title="My Blog" href="/blog/">Blog</a>
<a title="My Portfolio" href="portfolio.html">Portfolio</a>
<a title="Contact us" href="contact.html">Contact</a>
```

```
Home
                                     Portfolio
                         Blog
                                                      Contact
                                                                      A simple, horizontal navigation.
#navigation (
       margin: 0;
       padding: 10px;
       list-style-type: none;
       border-bottom: 1px solid #ccc;
                              This rule changes the  tags from
#navigation li {
                               a block element to an inline element,
       display: inline;
                               allowing them to appear next to each
                               other instead of on top of one another.
#navigation li a
       text-decoration: none;
       padding: 10px;
       color: #777;
}
                                                          The active and hover states allow us to
#navigation li a.active, #navigation li a:hover {
       background: #eee;
                                                                 define rules that change the navigation
       border-top: 2px solid #ddd;
                                                                 when the link has an "active" class or
       color: #333;
                                                                 when it's hovered over with the mouse.
ł
```



vertical header

Approach #2: Vertical navigation

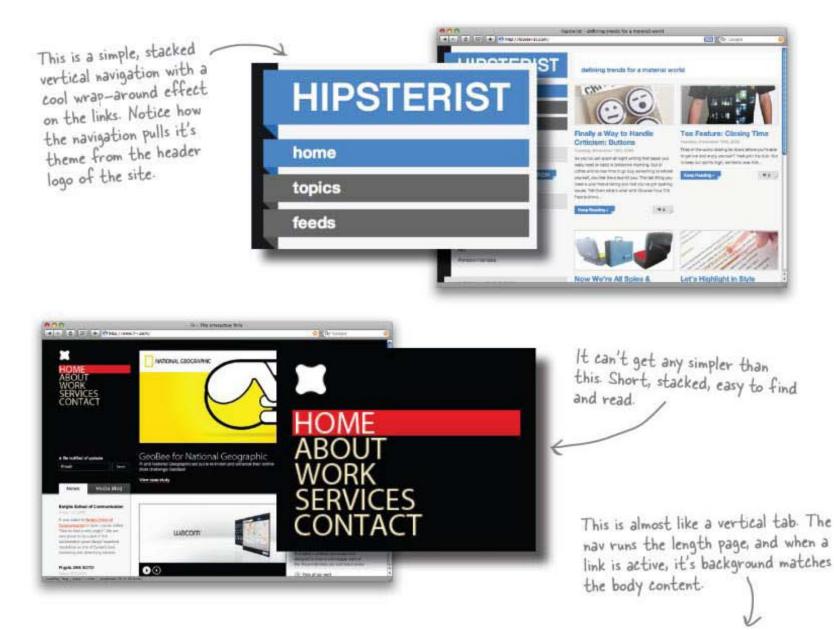
Vertical navigation designs are just as popular as horizontal ones—and show up in a lot of two-column designs. Vertical navigation isn't inherently better than horizontal navigation designs; it's just a different way to display your site links.

You can't always go with vertical navigation, though. Some single-column designs just don't play nicely with vertical navigation... but with most designs, you can go horizontal or vertical.

Here's what vertical navigation looks like in XHTML and CSS:

Notice that the XHTML - stays the same... all the styling and positioning is done in CSS.

```
#navigation (
       margin: 0;
                                                 Home
       padding: 0;
        list-style-type: none;
       width: 200px;
                                                 Blog
}
#navigation li {
        border-bottom: 1px solid #ccc;
                                                 Portfolio
3
#navigation li a {
        text-decoration: none;
        color: #777;
                                                 Contact
       display: block;
       padding: 10px;
}
#navigation li a.active, #navigation li a:hove
       background: #eee;
                                                                    Just by slightly changing your CSS,
        color: #333;
                                                                    you can create a whole different
}
                                                                     navigation layout.
In our CSS, the 's are displayed normally (not
inline), and our <a> tags are displayed as blocks.
This allows us to create nice block roll-overs and
active states.
```

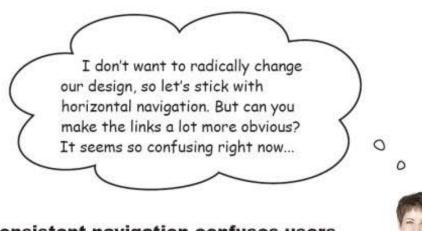


Dumb Questions

Q: Is it better to put vertical navigation on the left or right side of my page?

A: Lots of usability studies show there doesn't seem to be any real difference if you put your navigation on the left or the right side. If your layout works better with the navigation on the left, you should put it there. If your layout works better with a nav on the right, then that's okay, too.

- 1.2.1		the condition	Q-1-pp	
	twitt		le Profiliaire Sattings well Signaut	
	What are yo	u doing?	140 2 awa	
	·····		28 pdates	
		Home		
	E 1	@Replies		
		Direct Messages	2	
	-	Favorites	e postere	_
		Everyone		
			u are here ►	



Inconsistent navigation confuses users.

We base the way in which we interact with the world around us on the predictability of events. Every day, millions of people pull up to a red light, wait for it to turn green, and then continue driving. But what if you pulled up to a red light and instead of it turning green, it turned blue? You'd probably have absolutely no clue what to do.

Navigation works in a similar way. When a navigational system works right, people rely on it. In the CNM system, the navigation isn't what users are expecting. That's because it probably violates at least one of the following three principles:



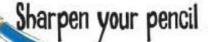
Navigation should be in a place users expect it to be: usually the top of a page, or along either side.



Links should look like links. They should appear to be "clickable" for users.

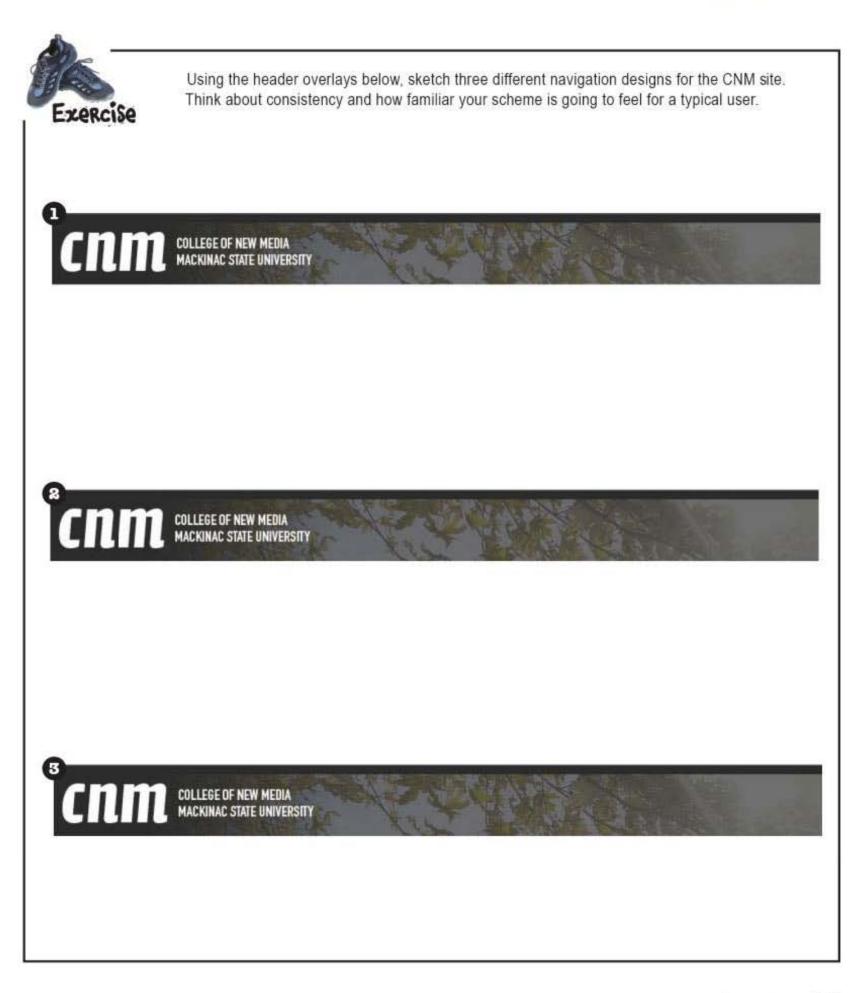


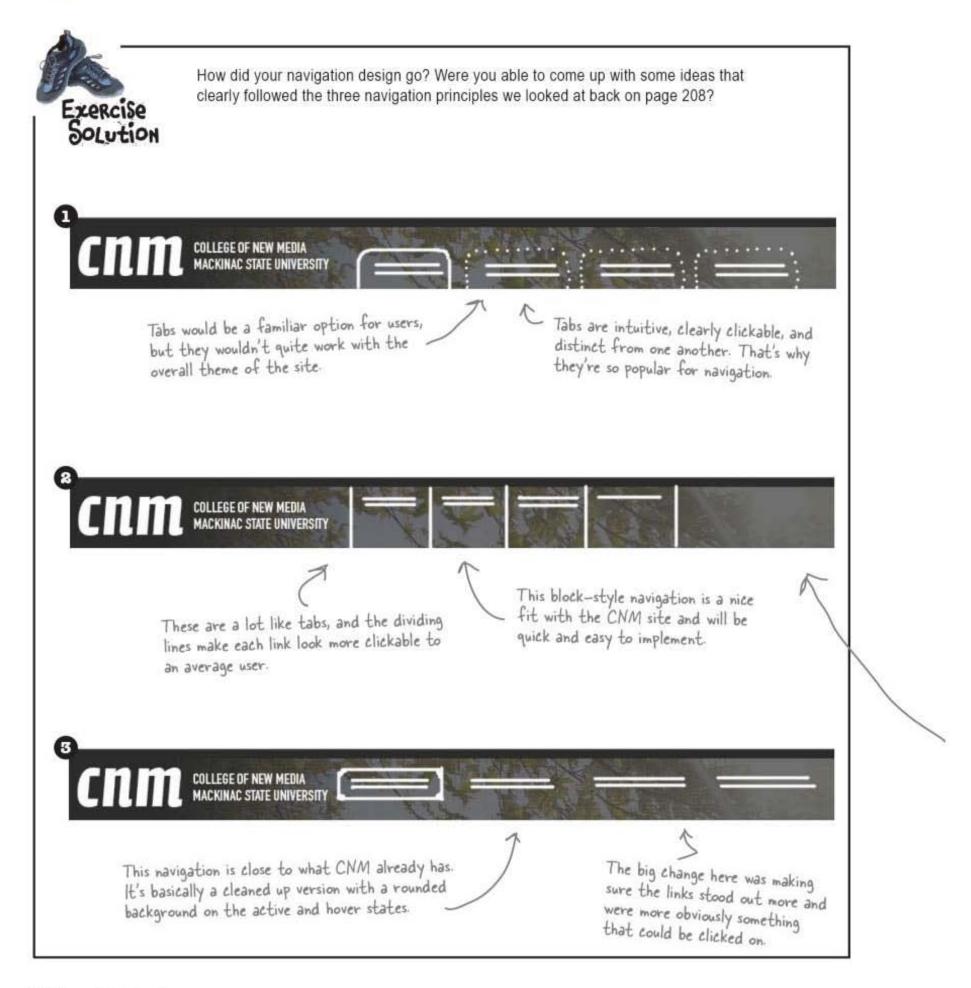
Links should be clearly identified and separate from each other.



How does the CNM site navigation hold up to the principles above? Next to each principle, write down some notes about that principle relating to the current CNM navigation.







I really like the tabs. Why don't we go with those, and just update the rest of the page's design to match a tabbed look?

Joe: I thought the registrar said they really liked the current design and just wanted to fix the navigation?

Frank: Besides, I think navigation should fit into your design, not make you change it.

Jim: Why not? I thought we all agreed that navigation should start way back when we're doing IA. So doesn't navigation have to influence our design?

Frank: Well, when we were doing IA, we just needed to make sure our category titles were short—

Joe: - and descriptive.

Frank: Right. But that's got nothing to do with how navigation actually looks on the page.

Jim: So we're stuck with the current design?

Joe: I'm not sure we're stuck with it. It's pretty nice, you know? I just don't think we need to mess with something that's working already.

Frank: Exactly. We're not getting paid to do all that extra design work.

Jim: Hmm. That's true. And I don't suppose the school would give us extra cash out of the goodness of their heart, huh?

Frank: Probably not. I think going with a simple, block style of navigation is our best bet.

Joe: That's where we just have some dividing lines between our navigation links, right?

Frank: Exactly.

Jim: So why do you call it block navigation?

Frank: Let me show you... it's all about the CSS we'll need to create that sort of a navigation menu...



Know your role in a web design gig. You'll rarely get paid for doing "extra" work unrelated to your core assignments.

Frank's talking about this option for navigation.

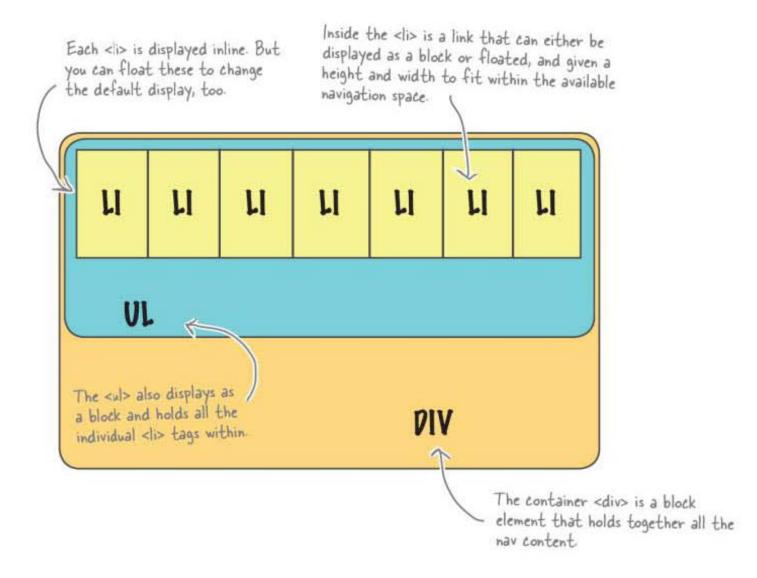
Block elements are your friends

Block elements (like paragraphs and headings) literally form a block from one side of the page to the other. And by default, block elements are as tall as the content they contain.

This is why when you apply a — background image to a heading, the image stretches well beyond the text within the element.

We've got our links in block elements already, those s we added earlier:

But we can adjust the height of a block element, as well as its position. The nice thing about blocks—and why they're great for navigation elements—is that they all automatically line up horizontally:



smart navigation

Let's float the block navigation on the CNM site

If we think of each in our navigation as a block, then we just need some CSS to style those blocks. We can add borders to separate each block, and make sure each block is positioned related to the previous block.

Make these changes to your version of screen.css:



screen.css

#nav {	
<pre>float: left; width: 460px; height: 75px; font-size: 1.4em; }</pre>	Because the #nav () is a block element, it's going to want to wrap below the header logo. To fix this, we need to float the left and give it a fixed width, so it displays next to, not below, the header logo.
<pre>#nav li a { float: left; width: 104px; height: 65px; padding: 10px 0 0 10px; color: #fff; text-decoration: none; border-right: 1px solid }</pre>	Like the , we need to float the links to the left, as well to mimic a block style. We'll give the links a fixed height and width that will give the nav items a consistent look regardless of the length of the text #777;
<pre>#nav li a.active { background: #222; }</pre>	A dark background on the "active" class will give the current page link a distinctive look and let users know where they are in the site.
	College of New Media (Markinsir Sale Lewersity College + • • • • • • • • • • • • • • • • • •
COLLEGE OF NEW MEDIA MACKINAC STATE UNIVERSITY	Home Students Faculty About
7	tome to The College of New Media at MSU ntact CNM New Media
clean navigation that catches	Occepte of New Media The Critings of New Media at Mackina: Stare University offers an interdisciplinary course of study in the systems, technologies, history, design, and theory of information. The curriculum enables subdents to investigate the creative and agained processes essential to this area of study. It propries students to be technologically capable, articulate thinkara, and creative media professionals.
each other, too.	Why CNM? Today, information is becoming fluid, continuous and instantly accessible. This has eaused a shift in the ways in which we create, access, use, understand and distribute information. The advent and convergences of new kises, technologies, and information systems has rekindled the relationship of the applied and creative arts and sciences. This renewed bond presents new 44

Alright, you had a good point about using block navigation. It looks nice. But I bet you'll agree with me on this... those little icons are terrible!



Confusion is the enemy of good web design. If something's confusing to you, it will probably be VERY confusing to

your users.



Here's what Jim's referring

to ... these are just below the

Frank: Yeah, no argument there. What are those?

Joe: I tried clicking on them. They're actually navigation.

Frank: Really? Where'd they take you?

Joe: To different degree program sub-sites. One was video games-

Jim: Oh, I bet that was the little icon that looks like a game controller, right?

Joe: Right. But another was...

Frank: Wait, let me guess. If the icons are good, I should be able to figure this out for myself, right?

Joe: Ha, I guess. Good luck, though.

Frank: Let's see. It's a school for new media, so... web design. Was one of them web design?

Joe: Wow, nice call.

Jim: Wait a second ... which icon stands for web design, Frank?

Frank: Hmm. Honestly? I have no idea ...

Jim: My point exactly. We've got to do something about those icons. I didn't even know you could click on them at first!

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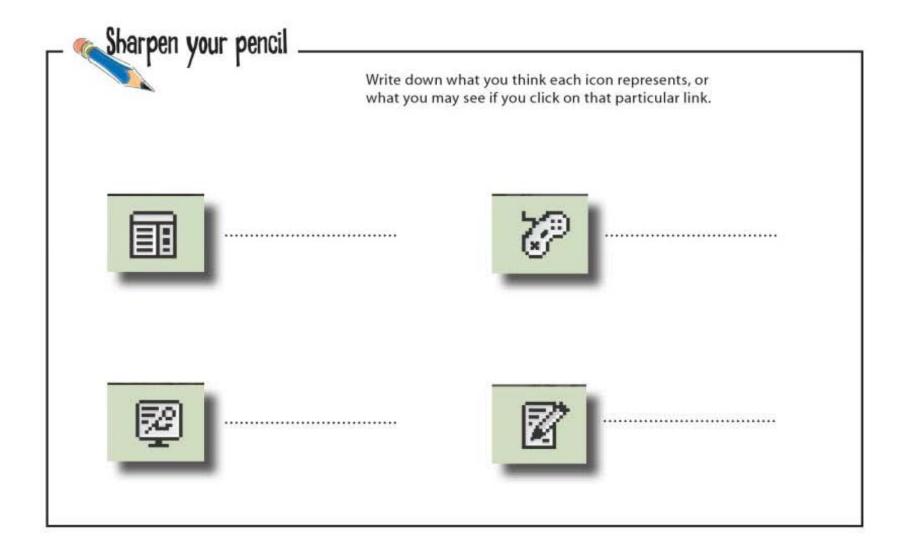
smart navigation

Icons don't SAY anything ... they just look pretty ...

Yes, icons are cool little design elements. The problem is, when used for navigation, they can cause some serious problems. What does an icon mean? What happens if you click on it? Where will the site take me?.

What one icon represents to you might be completely different from what it represents to another person. And if you use an icon as a navigational element, your users might get the wrong impression about where they will end up if they click the icon. The end result? The user's taken somewhere they didn't mean to go, and that user's a lot more likely to move on to another site.

Take the icon's on the CNM site ... how clear are their meanings?

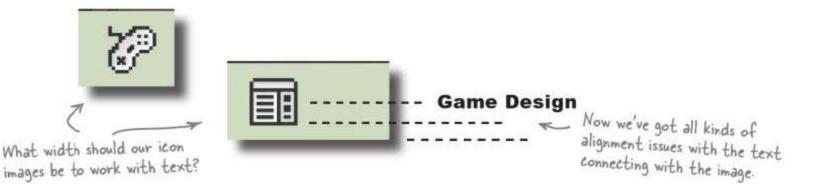


Even this is debatable.



Add icons to your text, not the other way around

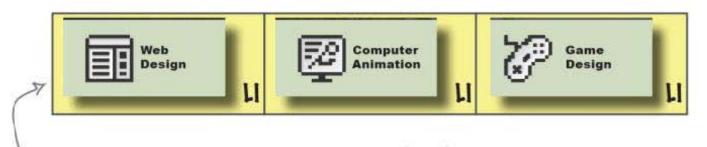
Right now, the four CNM icons are little images inserted into the XHTML. If we want to add text descriptions of those icons, we'd need to squeeze the text between each icon, potentially resize the icon, align the text with the image... and things get pretty complicated fast.



So what can we do? Suppose we started with text, like "Web Design" and "Computer Animation." The icons are meant to be links, so we can surround the text with <a> tags. But once we've got <a> tags, we can style those with CSS.



With stylable elements to work with, we can get around all the position issues and actually insert the icons as background images to the text items. That means the will grow to the right size, and since each link is in an , everything will naturally line up properly.



We can set the background image property of each to the appropriate icon and make sure things line up just right. By default, an image in the background property will repeat. Use the "no-repeat" value to make an image only display once, and then position it centered on the left side of an element.

> background: #dddddd url('web_design-icon.gif') no-repeat left center;

Update the CNM XHTML to use textual links

Let's open up index.html and remove the icon images from the XHTML. Instead, we need a new unordered list, with s and <a>s for each link. We'll use the textual link name, and then we can update our CSS to style each link in a moment.

Go ahead and make these changes to your copy of index.html:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <title>College of New Media | Mackinac State University</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  k rel="stylesheet" href="stylesheets/screen.css" type="text/css"
        media="screen" />
</head>
<body>
  <div id="header">
    <img alt="cmn logo" src="images/cnm logo.png" />
    <a class="active" title="CNM Home" href="index.html">Home</a>
     <a title="#" href="#">Students</a>
     <a title="#" href="#">Faculty</a>
      <a title="#" href="#">About</a>
   This list item has a special class so that we can style it differently from the rest of the links. This will act almost like a title for the sub-navigation
  </div>
  <div id="subnav">
    Programs
      <a class="webdesign" href="#">Web Design</a>
      <a class="animation" href="#">Computer Animation</a>
      <a class="game" href="#">Game Design</a>
      <a class="writing" href="#">Digital Writing & amp; Rhetoric</a>
    </div>
                                             The # signs are just place-holders for
  <!-- etc...
                                            links. When we have files to link to, we'll
</body>
</html>
                                             replace the # sign.
This link list should be very similar to the
```

This link list should be very similar to the main nav link list. Just make sure that you give the container <div> a different id.

Each link has it's own class: so we can assign the right icon to the background.



index.html

Now we can style our new block elements...

Now you can add these rules to $\verb+screen.css$ to style the subnav and related elements:

```
#subnav (
       margin: 0;
                                          For the sub-navigation, we gave an ID to the
       padding: 0;
                                          <div> that contains the link list. This gives us a
       background: #d2dbc0;
                                          little more flexibility with styling.
       height: 46px;
}
#subnav ul {
                                       We need to get rid of the default bullet points-those
       list-style-type: none;
                                       aren't going to work here.
#subnav ul li {
       float: left;
                                                                                          screen.css
       margin: 0;
                                            This is the rule for the special list item that
       padding: 15px 10px 15px 10px;
                                            acts like our sub nav heading. Notice the use of
       font-size: 1.4em;
                                            the background image to make the faux arrow.
#subnav li.option {
        text-transform: uppercase;
       background: #b2bf99 url('../images/option li bg.gif') no-repeat right;
       padding: 15px 25px 15px 10px;
       color: #7f8e62;
1
#subnav li a {
                                       Each link has its own class which allows us to assign
       padding: 10px 0 10px 35px;
                                       a different background image to each. Make sure
       color: #333;
                                       you use the no-repeat vlaue so you don't tile the
       text-decoration: none;
                                       image in the background.
}
#subnav li a.webdesign {
       background: url('../images/webdesign icon.png') no-repeat left center;
#subnav li a.animation (
       background: url('../images/animation icon.png') no-repeat left center;
#subnav li a.game {
       background: url('../images/game icon.png') no-repeat left center;
#subnav li a.writing {
       background: url('../images/writing icon.png') no-repeat left center;
1
```





Fire up your browser. Suddenly, those confusing icons are clear, and you've managed to keep the icons intact... something the registrar thought was pretty important.



Primary navigation shouldn't change... ...but secondary navigation SHOULD

Primary navigation is the navigation that provides links to the main sections of the site. So with CNM, our primary navigation is the top-level blocks, with Home, Students, Faculty, and About displayed. These links should be displayed on most (if not all) of the pages in your site.

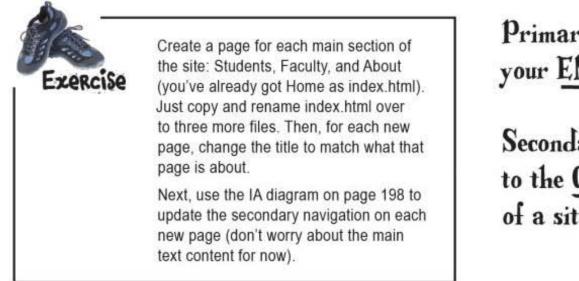
me	Students	Faculty	About
			And Sis

Secondary navigation is navigation that links to subsections of the site. Secondary navigation should apply to what's going on with the page and where the user is *at a specific time*.

PROGRAMS	Web Design	Computer Animation	Game Design	Digital Writing & Rhetoric
		M On th	e homepage, the sub	-navigation gives us

links to the various course programs available.

Suppose someone clicks the Faculty link on the CNM page. The primary navigation links still make sense, but the secondary navigation—the program links—probably don't anymore. What about for the About page... should those links appear there either?



Primary navigation applies to your ENTIRE site.

Secondary navigation applies to the <u>CURRENT</u> <u>SECTION</u> of a site you're on.

Each sub-page gets its own secondary navigation

Open up the page you created for the Student section. We called ours students.html. We need to change the title and update the secondary navigation based on the CNM's IA diagram:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
                                                                  The title of the page should
      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
                                                                  match the link name and possibly
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
                                                                  provide a little extra detail.
<head>
  <title>Students | College of New Media</title> <<
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  k rel="stylesheet" href="stylesheets/screen.css" type="text/css"
                                                     We added a "page" class, so
       media="screen" />
                                                     we can style section pages
</head>
                                                     differently than the main
<body class="page">
  <div id="header">
                                                     index.html page.
    <img alt="cmn logo" src="images/cnm logo.png" />
    <a title="CNM Home" href="index.html">Home</a>
      <a class="active" title="#" href="students.html">Students</a>
      <a title="#" href="#">Faculty</a>
                                                  Primary navigation applies to the entire site, so it
      <a title="#" href="#">About</a>
                                                  stays the same, even on different sections.
    </div>
  <div id="subnav">
                                                                      We keep the option class
    and change the label
      Students
                                                                      name to Students (which
      <a href="#">New Media</a>
                                                                     is our current active
      <a href="Our facilities">Facilities</a>
                                                                     nav element). The rest
      <a href="Apply to the CNM">Applying to CNM</a>
                                                                     of the  is just s
    based on the 1Å for this
  </div>
                                                                     part of the CNM site.
  <div id="wrap">
    Welcome to The College of New Media at MSU
    <div id="content">
      Content
    </div>
    <div id="sidebar">
     Sidebar
    </div>
    <div id="footer">
      Copyright & copy; College of New Media at Mackinac State University
    </div>
  </div>
</body>
</html>
```

students.html

smart navigation

Let's style the navigation with our CSS

Now that we've got some actual secondary navigation in place, we can add some CSS rules to style the sectional pages. Each sectional page will have a body with a class of "page," so we can style those separately.

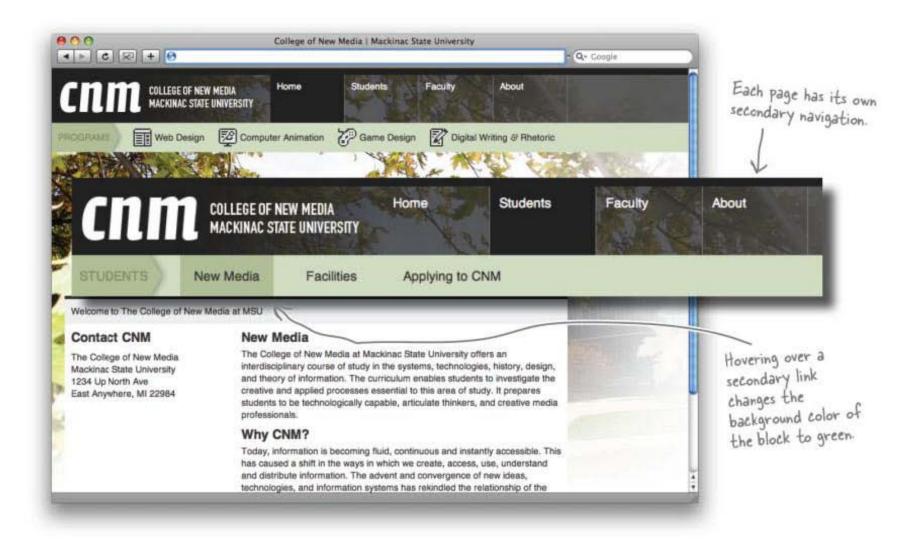
```
#subnav (
        margin: 0;
        padding: 0;
        background: #d2dbc0;
        height: 46px;
ł
#subnav ul li {
        float: left;
        margin: 0;
        padding: 15px 10px 15px 10px;
        font-size: 1.4em;
#subnav li.option {
        text-transform: uppercase;
        background: #b2bf99 url('../images/option li bg.gif') no-repeat
right;
        padding: 15px 25px 15px 10px;
        color: #7f8e62;
#subnav li a {
        padding: 10px 0 10px 35px;
        color: #333;
                                     Notice the page declaration? That's telling CSS to only
        text-decoration: none;
                                     apply these rules if the <body> has a class="page". This
}
                                     lets us style body elements for sectional pages differently
.page #subnav li a (
                                     than for the main index. html page.
        padding: 15px;
}
                                      This padding will make sure that our active and
.page #subnav li a.active
                                      hover states fill the whole block.
        background: #b2bf99;
}
                               This dark green will give the hover and active
                               states a nice effect for secondary links.
                                     This is the same CSS as we used for the rest of
                                     the site. Now it handles section pages, too, though.
                                                                                        screen.css
```

you are here > 223



Create students.html, and update index.html to link to your new section page. Be sure and update your CSS. Create pages for the Faculty and About sections, too.

Then it's time to try things out again. This time, open up index.html, and select one of the main links: Students, Faculty, or About. On each sub-page, you should see secondary navigation that matches the site's IA. You also should get a nice green color when you hover over a link:





Your Web Pesign Toolbox

You're over halfway done, and now you've tackled navigation. Your sites are well-organized, and people can actually get around in them. Up next: writing for the web. Sounds easy, right? Just wait until you read on...



BULLET POINTS

- Use your site's information architecture as the foundation for navigation.
- Primary navigation is the navigation that provides links to the main sections of the site. Secondary navigation is navigation that links to subsections of the site.
- When naming your navigational elements, make sure you use labels that are both short and descriptive.
- Horizontal navigation designs work particularly well with one and two column layouts.
- If your site has a vertical design for its primary navigation, make sure that you don't put secondary navigational elements higher on the page.
- The goal of navigation is to tell your users where they are in the overall architecture of your site and provide them with the means to make decisions about where they want to go from there.

- In order to avoid confusion, make sure you keep your navigation consistent across your entire site.
- Make sure that your users can learn your navigation system quickly.
- Breadcrumb trails give the user a visual indication as to the location of their current page in the site's overall information architecture.
- Never use icons (on their own) as navigational elements—what an icon means to you could be completely different from what it means to someone else.
- If you want to use icons as navigational elements, make sure you also use text in order to provide a clear indication of where your users will end up if they click on the link.



Writing for the web is just like any other kind of writing,

right? Actually, writing for the web is *completely different* than writing for print. People don't read text on the web like they read text on a printed page. Instead of reading text from left to right, beginning to end, they **scan** it. All of the text on your site needs to be quickly **scannable** and **easily digestible** by the user. If not, *users won't waste their time* on your site, and they'll go somewhere else. In this chapter, you'll learn a bevy of tips and tricks for writing scannable text from scratch and taking existing text and making it easy to scan.

reading on screen vs reading in print



Text on a screen reads differently than text on page. This is kind of a big deal when it comes to writing for the web. But don't take our word for it, give it a try.

First, read the text at **www.headfirstlabs.com/books/hfwd/chapter06/text** and keep track of how long it takes (write down your time below).

Now, read the version below and make a note of how long it takes.

Coleco Industries, which was originally named the Connecticut Leather Company, was founded in West Hartford, Connecticut in 1932 as a shoe leather company by Russian immigrant Maurice Greenberg. Moving into plastic molding in the 1950's, Coleco eventually sold off their leather business, and became a publicly traded company. By the beginning of the 1960s, the company was one of the largest manufacturer of above-ground swimming pools. In 1976, after an unsuccessful attempt to enter the dirt-bike and snowmobile market, they released Telstar, a clone of the home PONG unit being sold and marketed by Atari.

Despite the fact that Coleco was certainly not the only company releasing home PONG clones, they enjoyed moderate success and went on to produce nine more varieties of the Telstar unit. Unfortunately, in 1978, as the home video game market moved to programmable, cartridge based game units, Coleco was forced to dump over one million obsolete Telstar machines at a nearly crippling cost of more than 20 million dollars.

Coleco president Arnold Greenberg ignored this near disaster and directed his Research and Development team to begin work on a new home videogame system, the ColecoVision, which he felt would set the standard in graphics quality and expandability.

Time to read online version:
Time to read print version:
Which took longer?
Why?

Aww. C'mon, just because I read the online text a little slower doesn't mean that people always read slower on the web!



Frank: Woah, hold on there, buddy. Actually, it does. See, text on screen reads slower than text on a printed page. People read about 15% slower on the web than they do from a print document.

Jim: You're kidding. All the time? Wow. That's quite a bit slower.

Frank: And that's not all. Move your eyes really close to your computer monitor. What do you see?

Jim: Ack, that's nasty. The text gets blurry and fuzzy on my screen.

Frank: Exactly. You read slower on screen because computer display devices have a far lower resolution than print does.

Joe: Oh, I get it. I read slower because my eyes are trying to make up for the blurry text?

Frank: Exactly. And you'll probably experience eye strain faster than you would if you were reading from a print document. So people read text on screen differently than they do other kinds of text to avoid eyestrain and headaches.

Jim: But they don't know you're doing that? Reading slower?

Joe: Did you realize you were doing it?

Jim: Huh. No, I guess not. But how does this help me write text for my websites?

Frank: Users *scan* your text, looking for keywords, sentences, and paragraphs that are meaningful to them. So, if you write text that's specifically designed to be scannable, your users will read your faster and understand and retain your message better.

Joe: That sounds like the holy grail of copywriting. Are you sure you've got this right, Frank?

Frank: Yup. Scannable text gives users a better experience on your site—which means they'll stay longer and come back more often. And that's the whole goal of user centered design—giving your users what they want and keeping them coming back for more.



Now try the same thing with this block of text. Don't cheat! Be sure to read the text before you look at the questions.

The Release of the ColecoVision

ColecoVision was released in the summer of 1982 at a retail cost of \$199, featuring several noteworthy advancements:

- The ability to display 32 sprites on-screen at the same time
- A 16 color on-screen palette out of a total of 32
- Three channel sound

Donkey Kong: The Key to the ColecoVision's Success

The key to this new system's success was its included cartridge. In the case of the ColecoVision, Coleco successfully negotiated the right to release the smash arcade hit Donkey Kong.

Donkey Kong: Legal Problems with Universal

While amazingly popular, Coleco's release of Donkey Kong with the ColecoVision was not without its problems. Universal City Studios Inc., believing that Donkey Kong infringed upon their own King Kong, threatened both Nintendo and Coleco with legal action. With a large sum of money already invested in the license, Arnold Greenberg agreed to pay Universal 3% of the net sale price of the game.

Coleco Caves and Nintendo Fights Back

Unlike Coleco, Nintendo fought the lawsuit, offering numerous in-court demonstrations of gameplay vs. movie plot. Nintendo argued that in a previous case, Universal had argued that King Kong's characters and plot were in the public domain. Nintendo successfully argued its claim and was awarded \$1.8 million in damages. This prompted Coleco to file as well, earning back a portion of the royalties they had previously paid to Universal.

-

How many sprites could the ColecoVision display on screen?

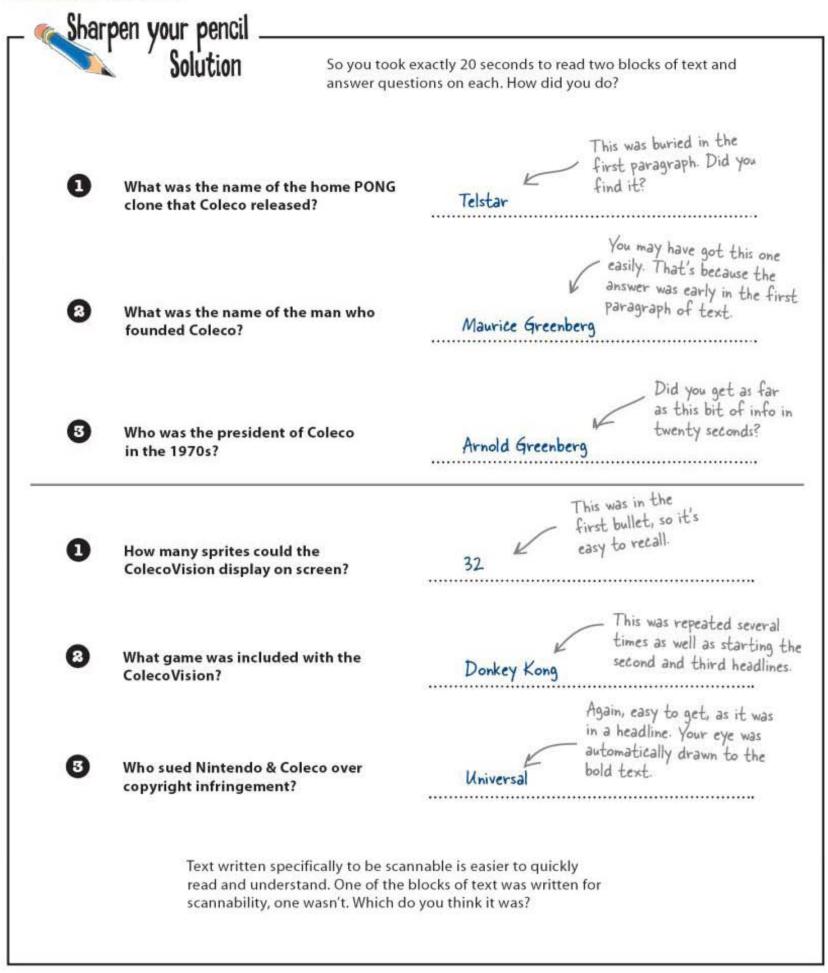


3

What game was included with the ColecoVision?

Who sued Nintendo & Coleco over copyright infringement?

.....



Build a better online newspaper

A local alternative newspaper was so impressed with the successful launch of the RPM record store site that they've decided to hire you to create an online version of their print newspaper.

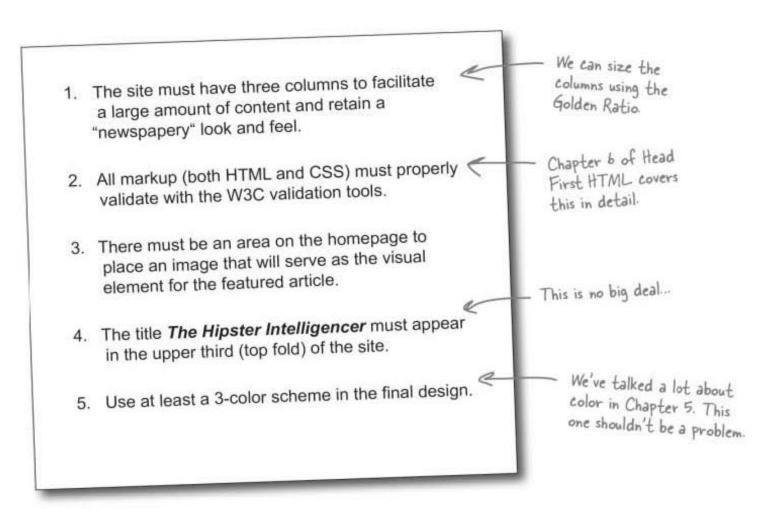
Although the paper's always had well-written articles, they've been struggling lately to keep their readers. The Editor-in-Chief also wants to cover more than just news on the paper's website. He thinks adding hip articles on computing and gaming pop culture (geek chic) will appeal to readers. The biggest challenge for this project isn't layoutit's writing text for the Web. This new site's the last chance to save their paper, so they really need your help ...



Hipster Intelligencer.

Hipster Intelligencer Online: Project Specs

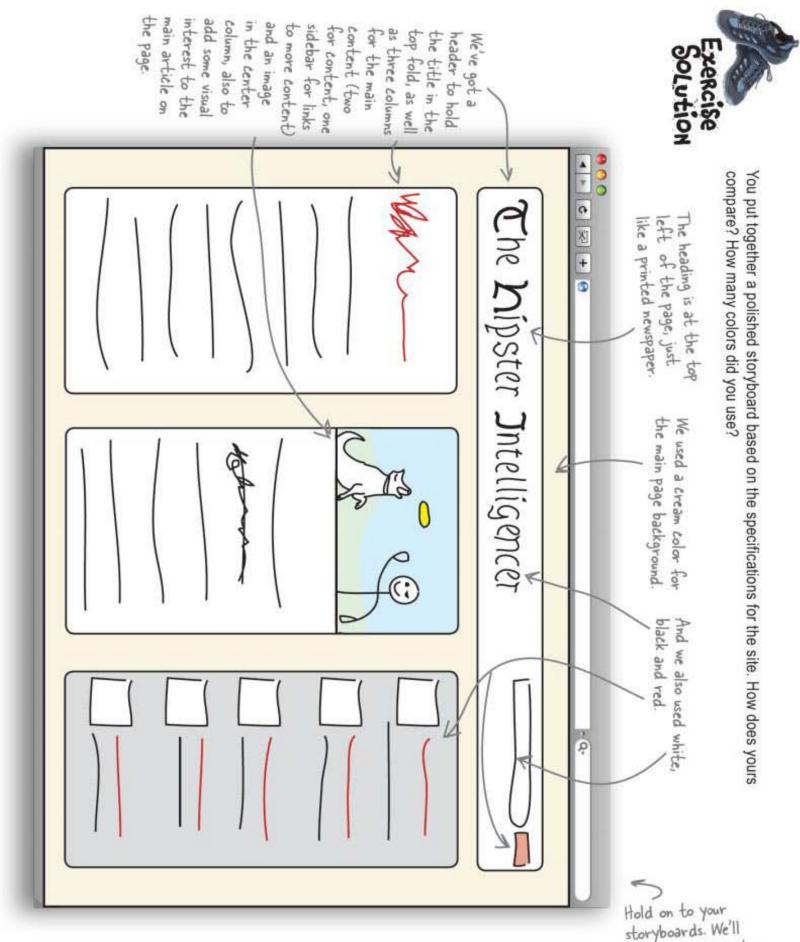
Before you get started, the paper's sent over some specs. This will help you refine the look and feel of the site you're building for them.



The problem is TEXT

None of these specs look like that big of a deal. However, there's one major issue *not* in these specs: the Hipster is mostly text—lots and lots of text. So we've got to build a text-heavy site that still feels usable and hip.

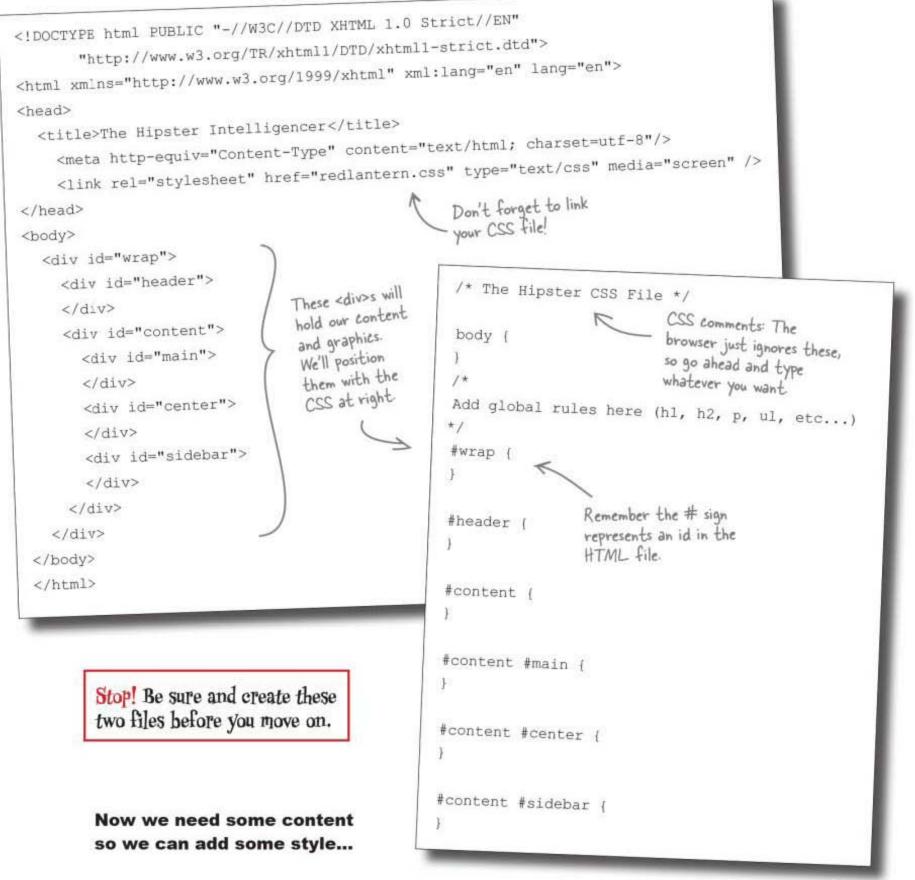
itor-in-Chief of the Hipster r a polished storyboard.	2.0-		
Based on the specifications for the site's design provided by the Editor-in-Chief of the Hipster Intelligencer, use this handy-dandy browser template to put together a polished storyboard.			
Based on the s Intelligencer, us			



Hold on to your storyboards. We'll be building this site throughout the chapter.



Here's some basic HTML and CSS to get you started implementing your storyboard.





focus their efforts on releasing Dungeons & Dragons.

There is considerable debate as to the contributions that Dave Arneson made to the initial development of Dungeons & Dragons. While Arneson has labeled himself "The Father of Role-playing," and has said that he was responsible for writing



Don't worry! All this text is available online

Checkout www.headfirstlabs.com/books/hfwd/chapter7/copy.html to get the full text you'll need to complete your site.



Now that you've got the framework for your site built in markup, add the content that the Editor-in-Chief has provided to the main content section of your HTML page. Remember, you can download all the copy from the Head First website.

 <div id="content"> <div id="main"></div></div>	Place the editor's copy in the main <div> and don't forget to enclose paragraphs in tags.</div>	
K		
 <div id="center"></div>		
		_

Open the new Hipster page in your browser. How does it look?

Q: Do people really read that much more slowly online?

A: Yup. Lots of scientific studies have come to the same conclusion, but you did your own experiment with the 20-second reading test. And you found the same thing, right?

bumb Questions

Q: Hmm. Okay, but that two blocks of text didn't seem all that different to me. How come I remembered so much more from the second one?

A: It's all thanks to "chunking" or breaking down content into smaller easier to read and understand bits. Sounds simple, but it's a killer tip for getting people to read more of your site. We'll take a look at how over the next few pages. Q: So you mean I can apply these principles to my blog? It's not just for online newspapers and long articles?

A: Absolutely! You can apply this to your blog or any other text you know folks will have to read on a computer screen.



Uh oh ... so much for readable text online!

The Hipster Intelligencer

C 2 + http://www.headfirstiabs.com/books/hfwd/chapter7/copy.html- Q-

In 1973, Gary Gygax, a game designer from Lake Geneva, Wisconsin, and Don Kaye founded Tactical Studies Rules in order to publish the rules for Cavaliers and Roundheads, a miniature war game based in the English Civil War. While Cavaliers and Roundheads was the initial focus of Tactical Studies Rules, Gygax and Kaye also wished to publish the rules for Dungeons & Dragons, a fantasy miniature role playing game developed by Gygax whose rules were based on Chainmail, a medieval miniature game developed by Gygax and Jeff Perren in 1971. As Cavaliers and Roundheads began generating revenue for Tactical Studies Rules, the partnership was expanded to include Dave Arneson and Brian Blume. While Dave Arneson was brought into the partenership as a game designer, and left shortly thereafter, Brian Blume entered as a funder. Blume believed that Cavaliers and Roundheads was not generating enough revenue, and encouraged Gygax and Kaye to focus their efforts on releasing Dungeons & Dragons.

There is considerable debate as to the contributions that Dave Arneson made to the initial development of Dungeons & Dragons. While Arneson has labeled himself *The Father of Role-playing*, and has said that he was responsible for writing the game in its entirety. Gygax contends that he himself was primary responsible for the development of Dungeons & Dragons, and Arneson's involvement, while important, was contributory. After Tactical Studies Rules was dissolved, and TSR Hobbies, Inc. was formed, Arneson continued to receive credit for his involvement in the development of Dungeons & Dragons, as well as royalties per his contract.

In 1975, after the highly successful release of Dungeons & Dragons, Don Kaye died of a stroke. The immediate result was that Blume and Gygax dissolved Tactical Studies Rules and founded a new company named TSR Hobbies, Inc. The board of directors for TSR Hobbies, Inc. consisted of Brian Blue, Gygax, and Kevin Blume, Brian Blume's younger brother who has received shares from Melvin Blume, Brian and Kevin's father, who had purchased shares in the company. Brian Blume acted as President of Creative Affairs, while Kevin Blume acted as President of Operations, and Gygax acted as the company's CEO and President. Unlike the equal partnership of Tactical Studies Rules, Brian Blume & Kevin Blume owned a majority of the new company's shares.

Initially, TSR Hobbies, Inc. experienced phenomenal success in both the United States and abroad. Unfortunately, despite the fact that the Dungeons & Dragons brand was becoming more popular and widely recognized, the Blume's began to greatly overextend the company's reach. They not only moved into domains such as boardgames and toys, but they began to diversify in remarkably unrelated areas. Perhaps the best evidence of this was the unapproved acquisition of Greenfield Needlewomen, a needlepoint business owned by one of the Blume's relatives. In addition, TSR Hobbies, Inc was remarkably overstaffed (the result of the Blume's nepotism). Further, Kevin Blume had grossly overprinted millions of copies of the previously successful multi-path Dungeons & Dragons adventure books, all of which could not be sold. In an effort to mitigate the mounting financial problems, TSR Hobbies, Inc was restructured into four companies: TSR, Inc., TSR Ventures, TSR International, and TSR Entertainment. TST Inc. continued to manufacture the company's core Dungeons & Dragons role playing products. TSR Ventures focused on the production of plastics and toys in Asia. TSR International was equivalent of the sole of the production and sales there, licensing and production. TSR Entertainment,

Wow. That online version's long and wordy. There's got to be something we can do to make this easier to read...

later changed its name to Dungeons & Dragons Entertainment Corporation, was entertainment markets, such as movie and television. Unfortunately, TSR Dungeons & Dragons cartoon. Upon multiple occasions, Gygax had said pt as keeping foreign income away from US taxation.

c moncy as a result of mismanagement. Eventually, both Kevin and ors after being accused of misusing corporate funds and accumulating priate acquisitions. In the wake of the Blume's departure from the board at regained partial control of the company. However, unbeknownst to cret negotiations with Lorraine Williams, a potential investor who Gygax had

brought into an even per hously as an officer, to acquire their majority stock. When Williams finally acquired a controlling stake in the company, Gygax attempted to have the sale declared illegal. Unfortunately, the attempt failed, and Gygax sold his remaining stock to Williams and used the capital to form a new company entitled New Infinity Productions.

The departure of Gygax from TSR irreparably changed the face of the company. TSR successfully expanded into areas such as magazines, paperback fiction, and comic books. In addition, the company released popular new role-playing settings including Dragonlance, Ravenloft, Forgotten Realms, and Greyhawk, all of which have had an enduring impact on the tabletop roleplaying landscape.

However, the company was unable to adapt to the continued fragmentation of the tabletop RPG community as new products were released by other companies. In addition, in an effort to compete in the emergent collectible card game market, TSR released a series of products, such as Dragon Dice and Spellfire, which simply did not sell. The downward financial spiral was aggravated by the fact that, as their products continued to perform poorly in the marketplace, TSR began to legally attack those who it believed infringed on its intellectual property. The targets of these legal actions included not only other corporations and businesses, but individuals fans involved in authoring fan fiction and D&D fan modules. The result of these actions was that TSR was widely perceived as directly attacking its customers.

In 1997, as TSR approached receivership, the company and all of its intellectual property were acquired by Wizards of the Coast. Ironically, Wizards of the Coast, which was now widely considered to be the preeminent tabletop role playing game company had been responsible for publishing Magic: The Gathering, the game whose remarkable success had been responsible for TSR's failure in the collectible card game market. After the sale to Wizards of the Coast, which continues to publish Dungeons & Dragons to this day, TSR was slowly dismantled. In 2003 the final TSR trademarks were allowed to expire by Wizards of the Coast.

Despite its almost constant legal and financial troubles, TSR had a lasting impact on both digital and non-digital games. One might easily argue that TSR has had more impact on the entertainment game industry (digital or non-digital) than any other company in the history of games. Not only are many computer role playing games based on the archetypes and mechanics first introduced in Dungeons & Dragons, but many of the luminaries in the history of digital games were greatly influenced by TSR and its various products. TSR's products have long since passed into the realm of popular culture.

Founded in 1973 by Gary Gygax and Don Kaye as an eventual means to publish, sell, and distribute the rules of Dungeons & Dragons, TSR went on to become one of the most noteworthy companies in the entertainment game industry. While Dungeons & Dragons went on to have a significant lasting impact on both digital and non-digital games, TSR, as a corporate entity, is perhaps best known for its financial woes and the bitter conflict that arose over ownership of the company and its intellectual property.

Yikes, look at the length of that scroll bar.

O

Improve your content with the Inverted Pyramid

A low percentage of people scroll beyond the information that's initially visible in their browser window. Even if your users are willing to scroll, most of them decide whether they want to read the page based on what they see in the browser window when the page loads.

To account for this, you should structure your text like an inverted pyramid. Start with a short conclusion so that users can quickly get the gist of the page, and add detail afterward. This way, users can stop reading at any time and still be confident that they've already read the important pieces of information.

> Put the most important stuff at the top of your text. Users should be able to read your first paragraph and get the idea of the whole piece.

Main Heading

A little body text to give the user some context and a brief introduction to the page content. noorkance

- Then maybe a few bullet points
 - that contain the highlights
 - · of the page content.

Another heading

Some more body text that gives the user more detail about the content of the page.

> And so on...

Content that's progressively less important, even though it's still well-written. Stuff that's not essential to the user's understanding of the article can go down here.



Here are two pieces of text. One was written using the inverted pyramid, the other was not. Read both, but stop reading when you feel that you've gotten the gist of what the article contains.

Avalon Hill, now owned by Hasbro and operating as a division of Wizards of the Coast, was a tabletop game company specializing in war games and strategic board games. They were not only responsible for pioneering many of the key concepts of modern tabletop wargaming—such as the hex grid and zones of control—they were also responsible for publishing some of the most recognizable titles in the board game industry such as Civilization, Axis and Allies, Runequest, and Dune.

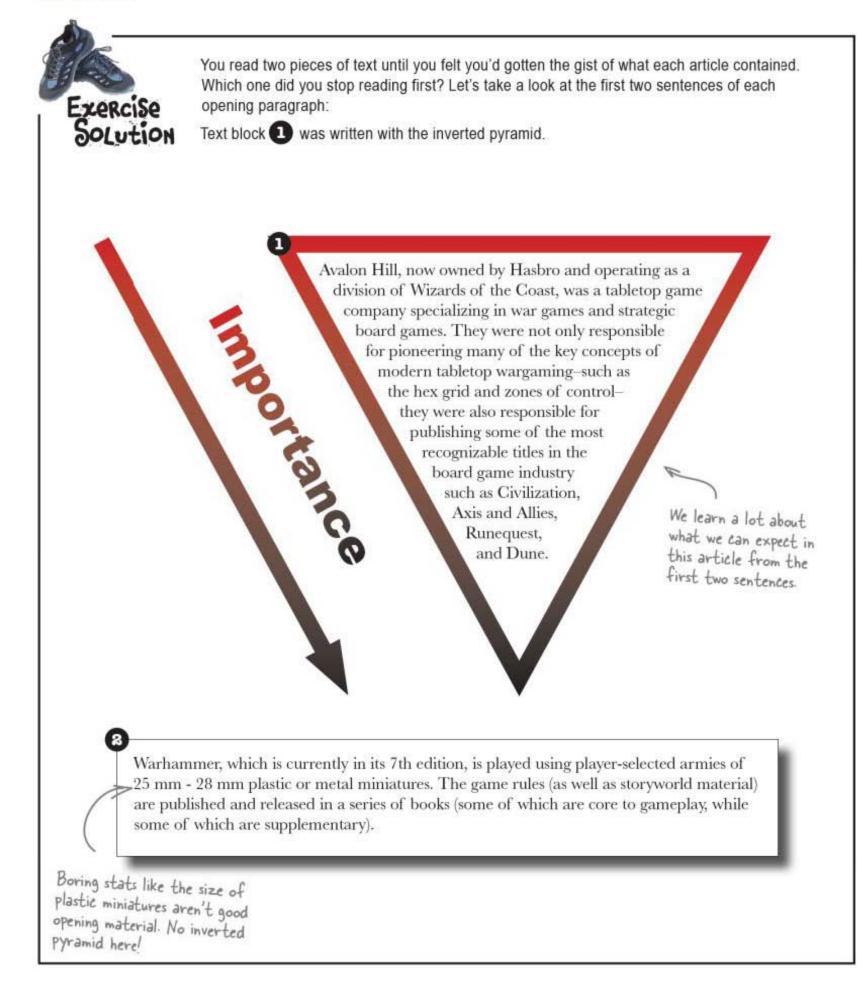
In 1958, Charles Roberts founded Avalon Hill in order to capitalize on the success of his game Tactics. Self-published in 1952, Tactics was particularly noteworthy because it was based on actual war tactics and scenarios. As such, Tactics is considered to be the first modern tabletop war game. Shortly after the company was founded, it released Tactics II, the sequel to Roberts' original game. Shortly after the release of Tactics II, Avalon Hill published Gettysburg, which is widely considered to be the first tabletop wargame based upon an actual historical battle.

Avalon Hill enjoyed moderate growth through the 1980s and early 1990s. However, during the mid 1990s, the board game industry as a whole began suffering a downturn in sales. Not only had overall sales of their board games decreased, but the company had also lost the rights to two of their most popular games, Civilization and 1830, in a legal battle with the computer game publisher Microprose. In the summer of 1998, Eric Dott, president of Monarch Avalon, Inc. (the parent company of Avalon Hill), sold the rights to all Avalon Hill titles, all back stock, and the name company itself to Hasbro, Inc. Hasbro continued to publish games under the Avalon Hill name. In late 1999, Avalon Hill was made a division of Wizards of the Coast, who had been purchased by Hasbro earlier that year. Wizards of the Coast continues to release games under the Avalon Hill name, including Axis & Allies, Betrayal at House on the Hill, RoboRally, and Risk 2210 A.D. Warhammer, which is currently in its 7th edition, is played using player-selected armies of 25 mm - 28 mm plastic or metal miniatures. The game rules (as well as storyworld material) are published and released in a series of books (some of which are core to gameplay, while some of which are supplementary). The game itself is generally played on a surface, the standard size of which is 4x6 feet. While the game can be played with just the miniatures, players will often use model scenery, such as trees, buildings, and topography, in order to add realism and depth to their game. Each unit (either a single miniature or a group of miniatures) has a point value based on their power or skills. Players build (or "draft") an army based on an overall point value set by the game type. For instance, a 700 point game means that each player can build an army totally 700 points or less. Movement across the playing surface, which is turn-based, is measured in inches and combat between units is accomplished through use of six-sided dice. Victory in Warhammer is most often determined by victory points, which earned by killing enemy units and meeting scenario based special objectives.

It's important to note that Warhammer is not a collectible game. As a result, miniatures are not sold using a closed-box, random model. Players simply pick and choose the miniatures they want to have in their armies, and buy them individually or in large sets. It is also important to note that Warhammer miniatures do not come pre-painted. It is the responsibility of the player to paint their own miniatures. As such Warhammer is somewhat of a niche product as it requires specialized skills to fully experience the game. In addition, unlike other pre-painted tabletop miniature games, such as WizKids' HeroClix, Wizards of the Coast's Star Wars Miniatures, or Fantasy Flights Games' Mutant Chronicles CMG, the Warhammer community has a unique system (which is both formal and informal) that recognizes particularly talented miniature painters. Generally speaking, Warhammer is most commonly played in game stores, hobby stores, and comic stores. In addition, Games Workshop organizes a Grant Tournament season each year in which players compete against one another for community-wide recognition and prizes.



Which was easier to read? Can you identify the text written using the inverted pyramid? How do you think the inverted pyramid makes text easier to read?





Copy Magnets

Organize these chunks of text from the Editor-in-Chief's copy using the inverted pyramid. Remember to keep the most important information at the top.

Despite the restructuring, TSR, Inc. continued to lose money as a result of mismanagement. Eventually, both Kevin and Brian Blume were removed from the board of directors after being accused of misusing corporate funds and accumulating large debt in the pursuit of unapproved and inappropriate acquisitions. In the wake of the Blumes' departure from the board of directors, Gygax assumed the role of CEO and regained partial control of the company. However, unbeknowns to Gygax, Kevin and Brian Blume were in secret negotiations with Lorraine Williams, a potential investor who Gygax had brought into the company previously as an officer, to acquire their majority stock...

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Copy Magnets Solution

You organized chunks of copy from the Editor-in-Chief using the inverted pyramid. How do you think users would react to the text as it is here?

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Scannable web copy:

has content ordered by the inverted pyramid

This still seems too long. I really don't want to read all that text...



Compress your copy

One of the easiest things you can do to make text more web-friendly is to *remove unnecessary content*. If your text's clear and concise, your users will spend less time reading and will be happier.

So, what's the best way to write less but still keep the relevant content in your article? It's a matter of careful editing. Get to the point quickly with *short words and phrases* and concise *two to three sentence paragraphs*.

Reduce adverbs (words that change other words and often end in -*ly*, like "areally big moose") and replace passive phrases with active phrases ("the brain was hydrated by eight glasses of water a day" vs. "hydrate your brain with eight glasses of water daily"). You'd be surprised how many words don't have to be included in copy for it to make sense.

When you're done, *re-read your copy*. If you can't work out what it says, what hope do your users have of understanding it?



Take the article that the Editor-in-Chief gave you and edit it down so it's shorter.

The Hipster Intelligencer

DAILY HIPSTER NEWS + EVENTS

The full text to edit is available at: www. headfirstlabs. com/books/ hfwd/ chapter7/copy_ edited.html

Website copy

In 1973, Gary Gygax, a game designer from Lake Geneva, Wisconsin, and Don Kaye founded Tactical Studies Rules in order to publish the rules for Cavaliers and Roundheads, a miniature war game based in the English Civil War. While Cavaliers and Roundheads was the initial focus of Tactical Studies Rules, Gygax and Kaye also wished to publish the rules for Dungeons & Dragons, a fantasy miniature role playing game developed by Gygax whose rules were based on Chainmail, a medieval miniature game developped by Gygax and Jeff Perren in 1971. As Cavaliers and Roundheads began generating revenue for Tactical Studies Rules, the partnership was expanded to include Dave Arneson and Brian Blume. While Dave Arneson was brought into the partenership as a game designer, and left shortly thereafter, Brian Blume entered as a funder. Blume believed that Cavaliers and Roundheads was not generating enough revenue, and encouraged Gygax and Kaye to focus their efforts on releasing Dungeons & Dragons.

There is considerable debate as to the contributions that Dave Arneson made to the initial development of Dungeons & Dragons. While Arneson has labeled himself "The Father of Role-playing," and has said that he was responsible for writing the

They won't realize why, but you just saved them strained eyes!

Sharpen your red pen Solution Solution

You edited the article that the Editor-in-Chief gave you so it's shorter. What else will you need to do?

Don't worry, the "After" looks longer because all the stuff you deleted hasn't been taken out yet, it just has a line through it.

Before

In 1973, Gary Gygex, agains designer from Lako Genevo, Wisconsin, and Don Kaye frainded Tactienl Studies Rules in order to publish the rules for Cavaliers and Roundheads, a minimum war game based in the English Civil War. While Cavaliers and Roundheads was the initial focus of Tactical Studies Rules, Gygax and Kaye dos without to publish the rules for Diageons & Dragons, a fantasy minimum mic playing game developed by Gygax and Kaye dos without optimist the rules for Diageons, a nonlinear game developed by Gygax and Adr Perrus in 1971. As Cavalians and Roundheads began generating reviews for "actical Studies Rules, the partnership was expanded to include Dave Amesion and Biane Blarne. While Dave Amesion was beolgth its to the partnership was a game designer, and left Morely thereafter, Biane Blarne w a funder. Blarne believed that Cavaliers and Roundheads was not generating ecough revince, and encouraged Gygax and Kaye to focus their efforts on incleasing Diageons & Diageons

There is considerable dehate as to the contributions that Dave. American made to the initial development of Dungeous & Dragons. While America has labeled himself The Fatter of Rote-playing, and has taid that he was responsible for writing the game in its entirety. Dygax contends that the himself was primary responsible for the development of Dungeous & Dragons, and American's involvement, while important, was contributivy. After Tactical Statics Bales was dissolved, and TSR Holtbes, Ibo, was formed. American continue to receive credit for the involvement in the development of Dungeous & Dragons, as well as royalities per his contract.

In 1975, after the highly successful indease of Dangeons & Diagons, Don Kaye died of a stroke. The immediate result was that Bluene and Grygas dissolved Totation Studies Rules and founded a new company usered TSR Hobbics, Inc. The board of directors for TSR Hobbics, Inc. consisted of Brian Blue, Grygas, and Keviti Blume, Brian Blume's younger brother who has received shares from Molvin Blune, Bluin and Kevit's falter, who had parchased shares in the company. Brian Bluer, and a schol as 'resident of Crative Affairs, while Kevit Bluers acted on 'President of Opentions, and Gygas acted as the company's CEO and President. Unlike the equal partnership of Tactical Studies Rules, Brian Bluere & Kevin Bluere owned a majority of the new empany's shares.

Initially, TSR (fobbins, Inc. experienced phenomenal success in both the United States and abwead. Unformately, despire the fact that the Daragens & Daragens brand was becoming mine popular and widely neognized, the Blume's began to greatly oversating the company's reach. They not only moved into domains such as boardgames and tays, but hey began to diversity in menakubly anelated areas. Fortups the best reviseous of this was the unapproved acquisition of Ornerfield Neodleworms, a neodlepoint bulnness owned by one of the Blume's statistics, in a diversity in transite the transition of the Blume's tendent and the second transition of the Blume's tendent and the second statistics, in a dwarf mandadby oversatified the result of the Blume's tenporiary. Further, Kevis Blame had grossly oversiting and million of copies of the previously successful multi-part Dangenon & Dangons advecture brokes, all of which could not be to tak. In an effort to miligate the manning financial problems, TSR Hobbies, Inc was restructured into four companies; TSR, fine., TSR Ventures, TSR, International, and TSR Einsteintensen. TST fac: continued to mainfacture the simpany's core Dangenos & Dangons role to playing products. TSR Ventures focused on the production of playing and tays. In Nati. TSR International was established to mininge oversea business, distribution and sales there, locenting and production. TSR Enternational was established to mininge oversea business, distribution and sales there, locenting and production. TSR Enternational was established to mininge oversea business, distribution and sales there, locenting and production. TSR Enternational was established to mininge ther entropy as name to Dangens & Dangens & Dangens & Dangens and Enternation of the reproduction. TSR Enternational was responsible fin keyenging. TSR 9 in their enternationes and to Dangens & Dangens & Dangens and Enternation of Syngar, and later changed is name to Dangens & Dangens factoristics, Gygar, had sald that the separate corporations were Bahm's

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The dependent of Gy gas from TSR irrependely changed the face of the company. TSR increasefully expanded into areas such as magazines, paperbasi, fiction, and comic books. In addition, the company released popular new role-playing settings including Dependence, Revenich, Porgotten Realms, and Greyhawk, all of which have had an enduring impact on the indicop rolephrying landscape.

However, the company was unable to adapt to the cominated fragmentation of the tabletop RPG commanity as new products were released by other companies. In addition, in an effort to compare in the encaptor collectific and game market, TSR released a series of products, such as Dragon Dice and Spellifle, which simply did not sell. The downward financial spiral was aggrowated by the fact that, as their produces confined to perform poorly in the marketylace. TSR began to legally stack these who it believed infringed on its intifficential property. The targets of flexe legal actions included not only other corporations and businesses, but individuals fam involved in authoring fam factor and Da&D the results. The result of these lections wis that TSR was which perceived as checkly attacking its customers.

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Scannable web copy:

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has been edited so it's shorter

After °

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> The full marked up text is available at: www.headfirstlabs.com/books/hfwd/ chapter7/copy_edited_markedup.html

V

Dumb Questions

Q: So if people don't like to read on the web, what's the point editing my text down? Won't users just go ahead and print it to read offline?

A: Sure, some users print pages for future reference, but think about how you use the web. When did you last print a page to read later? Most people surfing the Net want quick answers, so it pays to give them text that's quick to read.

Q: Wait. Won't that mean they spend less time on my site, not more?

A: Actually, no. Sure, the occasional browser who was looking for something specific will read the page, then head on out never to be seen again, but the majority of users are hooked by good content. Once you've got them hooked, you can feed them more content with carefully placed links to related articles.

So this inverted pyramid thing... How do I work out what's most important about my content, so I can present that to users after a general introduction?

A: There are no hard and fast rules. If it's content you wrote, you should have a good idea of the two or three main points you want readers to take away. If it's content you received from someone else, read it through and see if you can find the main takeaways.

Q: So if my content's ordered by importance, how do I know when to stop?

A: Well, if some bit of content's so far down the importance line you're not sure whether to include it, that may be enough of a hint to get rid of the text. Of course, if you're still not sure, be the user. Imagine you're reading the text; does that last little bit of detail help you understand the main gist of the text? If it doesn't, you know what to do: Dump it!

Q: So how much content should I have removed when I edit my text? You made some changes I didn't even think of...

A: There's no perfect answer to this, but if you follow the rules to create 2-3 sentence paragraphs and remove unnecessary words, you'll find your text will be significantly shorter. Shoot for around 80% of your original text's length.

Practice will help here, but you can learn a lot by looking at other sites like yours to compare their writing style. Chances are, if you're following the rules, you're already seeing places where they could slim down their content a little!

The inverted pyramid and editing are useful tools, but so is re-reading. Once you're done editing, take another pass through and see if you can shave off just a little bit more.



Update your XHTML so that it contains only your edited text. Let's test it out in the browser... are we getting any closer?



So we still need to break the text down some, huh? How about using a **list** to make the content more scannable?

about us de la construction de l

Jim: How would that work? Doesn't a list just a add a bunch of different-sized chunks of text for users' eyes to scan?

Frank: Lists break up large blocks of text into smaller chunks that are easier for the user to read. And they give the user's eye something to lock onto when the scan the page. Let me show you how it works. I'll write out some text, then show you how it can be broken down into a list.

Lists do a great job of breaking up text and making the content on your page more scannable. Lists can break up paragraphs that seem to have lots of list-type items in them, and lists can even break larger paragraphs into smaller chunks, essentially building a list of paragraphs. Lists can be used in the main content body, sidebars, navigation, forms, and pretty much everywhere else on your page.

Jim: That's not bad, actually. Looks like the first paragraph of an article about lists, using the inverted pyramid to get all the important points up top.

Frank: Ha ha. Yes, well, you know, I've been paying attention. So anyway, like you say, this text isn't *bad*. But it could be *much* quicker to scan and read—

Jim: —in a list?

Frank: You betcha. Just like this:

Use a list when:

- You need to make your text scannable
- Paragraphs or sentences have "listable" elements
- Large blocks of text can be broken in to 1 or 2 sentence chunks

Jim: Neat. Those bullets summarize three sentences of your text into just three bullet points. But what about the rest of the text?

Frank: [writing]

Lists can be used in different ways all over your site. Try them in:

- Your main content
- Sidebars
- Navigation and Headers

Breaking text into a list allows readers to quickly glance at the text and extract information.



Visit the following sites and annotate these screenshots. Which of these sites use the inverted pyramid? Why do you think any of the sites wouldn't use the inverted pyramid? Do any of the sites use lists and bullets? Why or Why not?

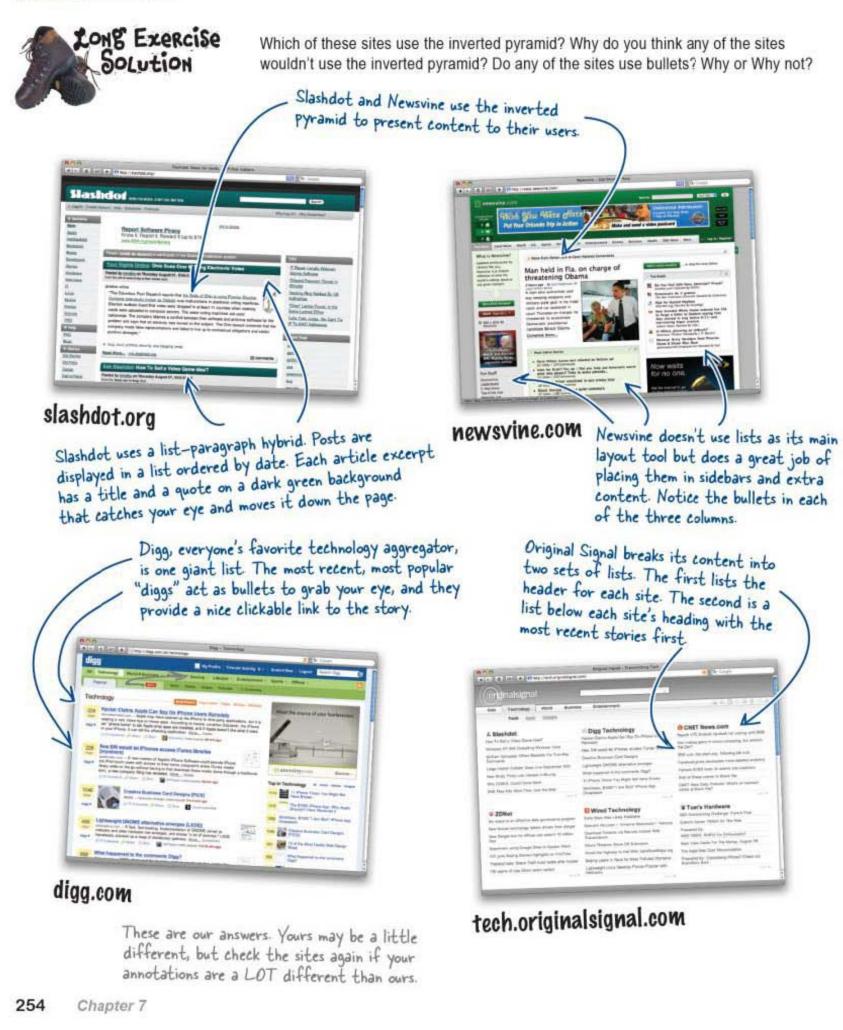


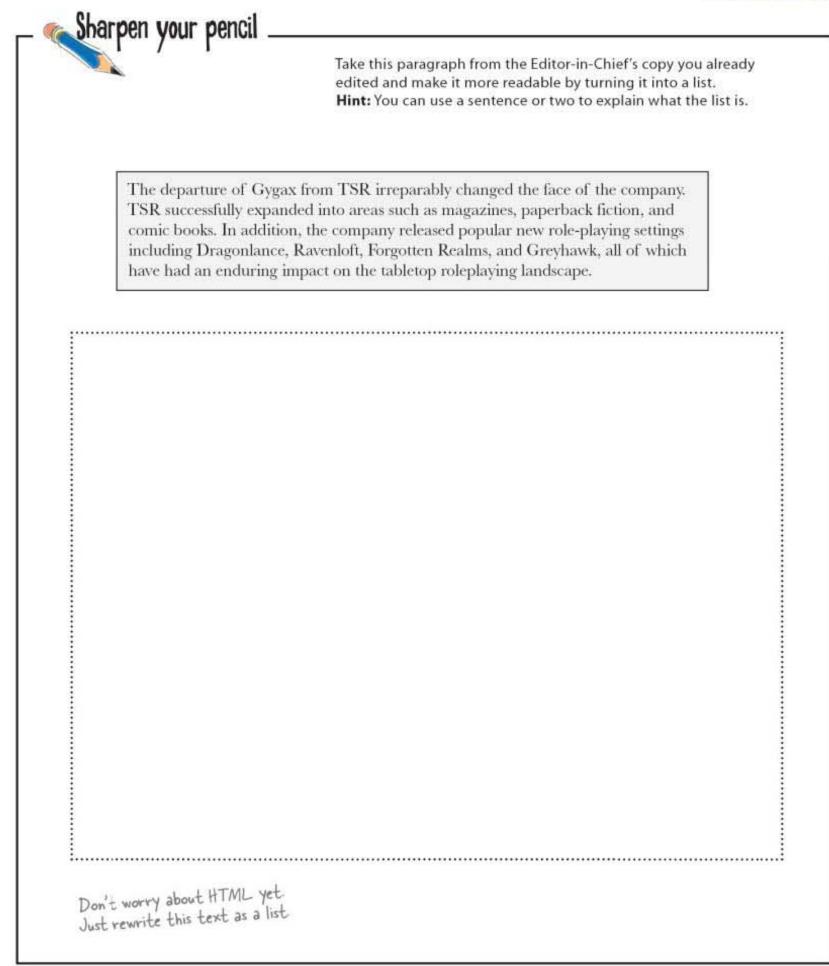
tech.originalsignal.com

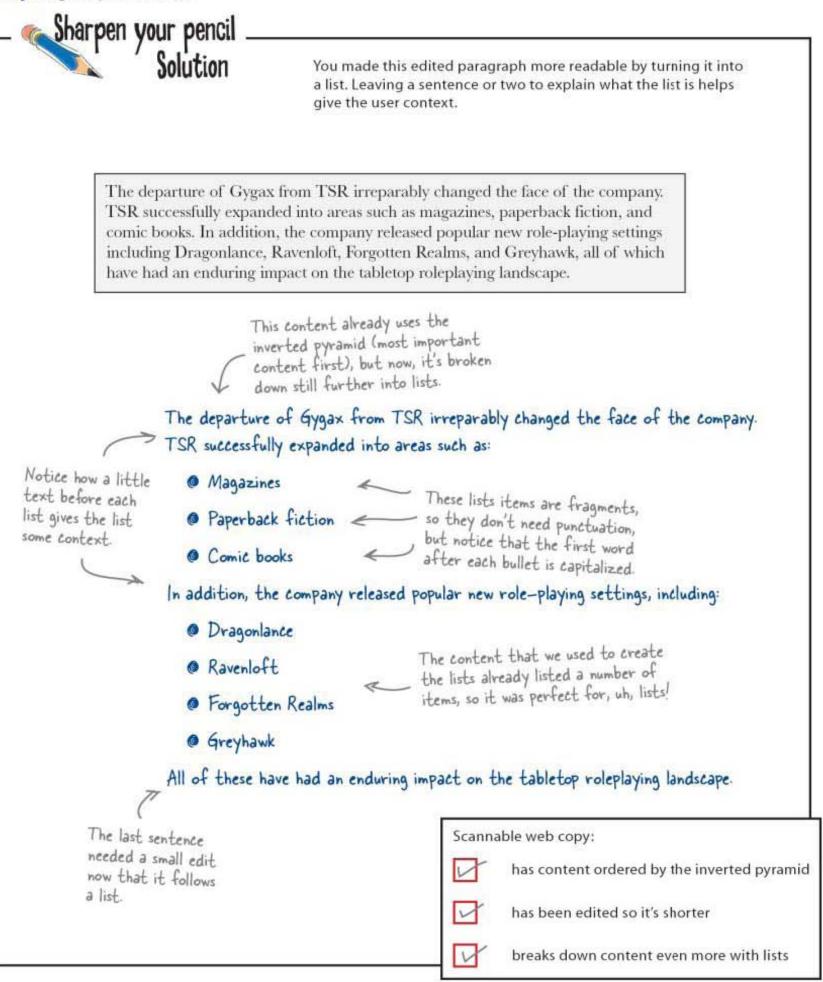


newsvine.com





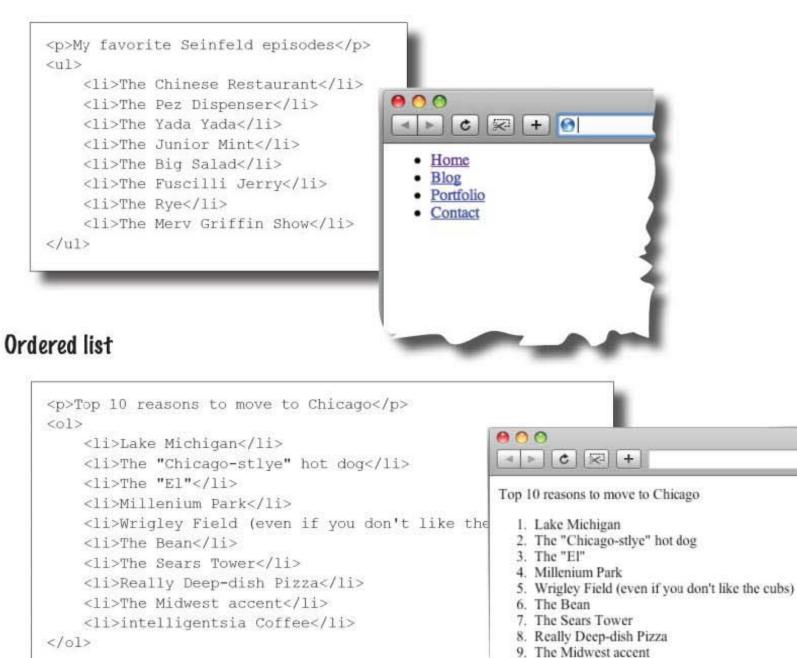




Add lists to your XHTML

Go ahead and edit the rest of your text to add lists where appropriate. When you're done, alter your XHTML so that it uses lists, too. You can use unordered and ordered lists to give you bulleted or numbered list items:

Unordered list



Stop! Create lists in your XHTML before you move on.

10. Intelligentsia Coffee



So, you've applied the inverted pyramid to your article, edited it some, and now you've added lists. How's it looking?

Here's our XHTML with lists. Check it out for yourself at www.headfirstlabs.com/books/hfwd/ chapter7/copy_edited_lists.html

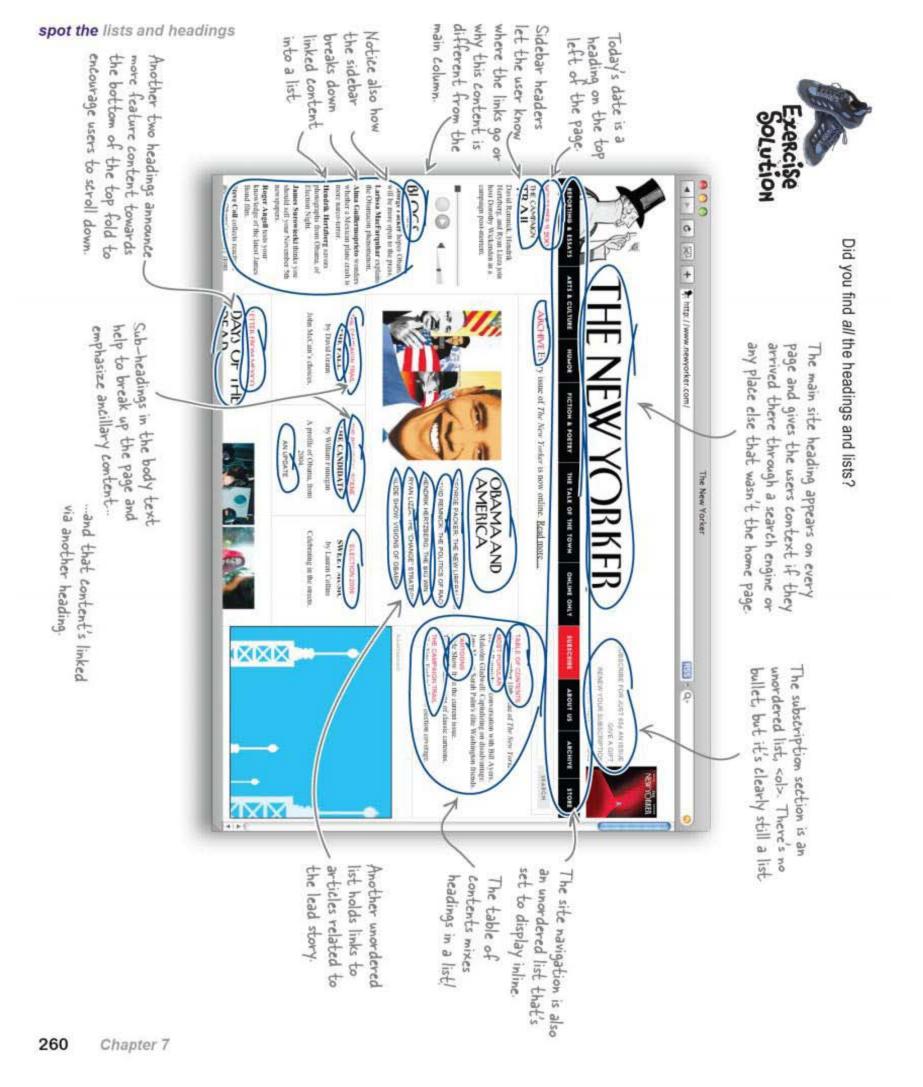
en o	The Hipster Intelligencer com/books/kfwd/chapter7/copy_edited.lists.html	- Q-	
Cavaliers and Roundheads was the initial focus of TSI Gygan. As Cavaliers and Roundheads began generation	Brian Blume entered as a funder. Blume believed that Cay		
In 1975 Don Kaye died of a stroke. The immediate re- directors for TSR Hobbies, Inc. consisted of Brian Blo	ailt was that Blume and Gygax dissolved TSR and founded me. Gygax, and Kevin Blume.	a new company named TSR Hobbies, Inc. The board of	
Roles were assigned as follows:			
Brian was President of Creative Affairs Kevin was President of Operations Gygax was the new company's CEO and President	lest.		
Unlike the equal partnership of TSR, brothers Brian at	d Kevin owned a majority of the new company's shares.		
domains such as boardgames and toys, and began to d	a both the United States and abroad. But the Blumes began iversify into inmelated areas. The best evidence of this was t atives. Also, Kevin Blume had printed millions of copies of		
In an effort to mitigate the mounting financial problem	s, TSR Hobbies, Inc was restructured into four companies t		
TSR, Inc. Confinued to manufacture the company's core E TSR Ventures Frocused on the production of plastics and asys i TSR International Established to manage:	ungeons & Dragons role playing products a Asia We bu	definition list, <dl>, lists ords and their definitions, t we used it here for the t of the four new companies d their responsibilities.</dl>	
Overseas husiness Distribution, sales and licensing Production	list	t of the four new companies	
TSR Entertainment Responsible for leveraging TSR's IP in other en	tertainment markets, such as movie and television	a their responsibilities.	
Unfortunately, TSR Entertainment's only success was keeping foreign income away from US taxation.		ad the separate corporations were filume's attempt at	
Despite the restructuring, TSR, Inc. continued to lose funds and accumulating large debt in the pursuit of board of directors, Gygax assemed the role of CU Williams—a potential investor who Gygax had controlling stake in the company, Gygax true to form a new company called New Infinity Production	This doesn't feel like a newspaper at all.	in and Bran Blume were accused of misusing corporate he board of directors. After the Blumes' departure from the rian Blume were in secret negotiations with Lornine majority stock. When Williams finally nequired the old his remaining stock to Williams and used the capital to	
The departure of Gygas, from TSR irreparably change	d the spanded in	areas such as;	
Magazines Paperback fiction Comic books	000		
In addition, the company released popular new role p	Brettings includ		
Dregonlance Ravenieft Forgotten Realms Greyhawk			
All of these have had an enduring impact or In 1997, as TSR approached receivership, I published Magie: The Gathering, the game		"uses: Ironically, Witzeds of the Coast, had ole card game market. After the sole. TSR was	
slowly dismantled. In 2003 Wizurds of the Despite its almost constant legal and financs emertainment game industry than any other co- introduced in Dungcons & Dragons, but TSR popular enhanc.	AN VAL	s to publish Dungsons & Dragons to this day costid argue that TSR had more impact on the is based on the archetypes and mechanics first workacts have long since passed into the realm of	i l
		The Hipster tough critic	Intelligencer's staff an
ter 7		improve the	s. What can you do to look of the copy?

even Headings make your text ^Vmore scannable

So you've used lists to break down some paragraphs and sentences into bullets, but what else can you do to help users scan your content? **Headings** are a great way to make blocks of text more scannable.

Headings reduce large blocks of text into more manageable chunks, and they announce exactly what that chunk of text is about—which lets your users decide whether they want to invest their time in reading that bit of text.







Now that you've got a good idea why headings are important (and what makes a good heading), it's time to try headings out on your own.

Write a short heading for each of the blocks of text below. Remember to create headings that are straight to the point and scannable.

Acoustic guitars are used in a variety of different genres across the globe. Because of the long history of the acoustic guitar, there are many different kinds; some kinds are rarely considered guitars, such as the ukulele, which was based on the four-stringed braginho or cavaquinhos from Portugal.

The Protestant movement may have commenced earlier, but the publication of Ninety-Five Theses by Martin Luther in 1517 spurred on the revolution within the Church. Luther attacked the Church's theology, which, he believed, misrepresented the Bible and placed too much authority in the hands of the clergy, and wished to reform the Church. After being excommunicated, Luther published many books on Reform. Luther's works were most influential in Germany and Scandinavia.

The surface of Mars is a lot like a desert on Earth; it is very dry and dusty, but it is also very cold. There are a lot of loose rocks and dunes of fine sand. Crater impacts mark the surface, but these are not as common as on the Moon. One of the craters is the huge Hellas Planitia. It is about half the size of the continental United States. The southern half of the planet has more craters than in the north. The south is also higher in elevation.



You wrote headings that are straight to the point and scannable for the blocks of text. Is this enough to give the copy that newspaper feel that the Hipster Intelligencer's staff wanted?

This text isn't just about acoustic guitars, but the different <u>types</u> of guitar that have evolved around the world.

Acoustic Guitar Types

Acoustic guitars are used in a variety of different genres across the globe. Because of the long history of the acoustic guitar, there are many different kinds; some kinds are rarely considered guitars, such as the ukulele, which was based on the four-stringed braginho or cavaquinhos from Portugal.

> This text is about Luther <u>and</u> his role in the Protestant movement, so if you have a heading that focusses on either, that's probably fine.

Martin Luther

The Protestant movement may have commenced earlier, but the publication of Ninety-Five Theses by Martin Luther in 1517 spurred on the revolution within the Church. Luther attacked the Church's theology, which, he believed, misrepresented the Bible and placed too much authority in the hands of the clergy, and wished to reform the Church. After being excommunicated, Luther published many books on Reform. Luther's works were most influential in Germany and Scandinavia.

> Yup, this one's definitely about geographical elements and Mars. Sometimes headings are no-brainers.

The Geography of Mars

The surface of Mars is a lot like a desert on Earth; it is very dry and dusty, but it is also very cold. There are a lot of loose rocks and dunes of fine sand. Crater impacts mark the surface, but these are not as common as on the Moon. One of the craters is the huge Hellas Planitia. It is about half the size of the continental United States. The southern half of the planet has more craters than in the north. The south is also higher in elevation.

Dumb Questions

Q: Doesn't adding a bunch more small items on the page make it longer? Won't that strain my users' eyes more than a shorter page?

A: No. In fact, lists help your users scan the page faster and take in more information, more easily. Lists break down sentences and paragraphs that contain a lot of information into easy to read chunks. Lists might add a little to the length of a page, but your users will be happy to scroll down if the content's relevant to them... And since you've already edited your text so it follows the inverted pyramid structure, they'll know right away if the page is relevant to them.

Q: When should I use lists? You had a couple I didn't have, and I added some in that you didn't. What gives?

A: Lists are great for breaking long paragraphs down into two or three more manageable chunks. If you broke down more paragraphs than we did, that's fine, but be careful not to overuse lists. It's good to try and keep a balance between short focused sentences and lists. Both help keep your users interested.

Q: What about the definition list in your solution, what made you decide to use that where you did?

A: Definition lists aren't just for definitions! Sure you can use them to give a word or phrase and provide a definition, but we chose to use the <dl> to list each of the four new companies and their responsibilities.

Q: What if I didn't catch all the lists and headings in the New Yorker exercise?

A: Hey, don't be too hard on yourself! Seriously, there are a *lot* of headings and lists on that page. If you didn't catch them all, it's no big deal. Just keep practicing, and soon you'll be writing web copy like a pro—and recognizing the same tricks at work on other people's sites, too.

Keep practicing. The more web copy you write and edit, the better you'll be at slimming text down and making it scannable.

LONG Exercise

Use your new found expertise and write headings for the first four sections of your copy.

.....

In 1973, Gary Gygax and Don Kaye founded Tactical Studies Rules (TSR) to publish the rules for Cavaliers and Roundheads, a game based in the English Civil War. Cavaliers and Roundheads was the initial focus of TSR, but Gygax and Kaye also wished to publish the rules for Dungeons & Dragons, a role playing game developed by Gygax. As Cavaliers and Roundheads began generating revenue for TSR, the partnership was expanded to include Dave Arneson and Brian Blume. Dave was brought into the partnership as a game designer, but soon left, while Brian Blume entered as a funder. Blume believed that Cavaliers and Roundheads was not generating enough revenue and encouraged Gygax and Kaye to focus their efforts on releasing Dungeons & Dragons.

In 1975 Don Kaye died of a stroke. The immediate result was that Blume and Gygax dissolved TSR and founded a new company named TSR Hobbies, Inc. The board of directors for TSR Hobbies, Inc. consisted of Brian Blume, Gygax, and Kevin Blume.

Roles were assigned as follows:

- Brian was President of Creative Affairs
- · Kevin was President of Operations
- · Gygax was the new company's CEO and President

.....

Unlike the equal partnership of TSR, brothers Brian and Kevin owned a majority of the new company's shares.

.....

TSR Hobbies, Inc. experienced phenomenal success in both the United States and abroad. But the Blumes began to overextend the company's reach. They moved into domains such as board games and toys, and began to diversify into unrelated areas. The best evidence of this was the unapproved acquisition of Greenfield Needlewomen, a needlepoint business owned by one of the Blumes' relatives. Also, Kevin Blume had printed millions of copies of the previously successful multi-path Dungeons & Dragons adventure books, which couldn't be sold.

.....

In an effort to mitigate the mounting financial problems, TSR Hobbies, Inc. was restructured into four companies that focussed on different areas:

TSR, Inc. Continued to manufacture the company's core Dungeons & Dragons role playing products

TSR Ventures Focused on the production of plastics and toys in Asia

TSR International Established to manage:

- Overseas business
- · Distribution, sales and licensing
- Production

TSR Entertainment

Responsible for leveraging TSR's IP in other entertainment markets, such as movie and television

Unfortunately, TSR Entertainment's only success was the short lived Dungeons & Dragons cartoon. Gygax claimed the separate corporations were Blume's attempt at keeping foreign income away from US taxation.

Now write the headings for the rest of your article, and when you're done, change your XHTML file to match.

When you've done that, download the content for the center <div> and sidebar.

www.headfirstlabs.com/books/hfwd/chapter7/center.html

www.headfirstlabs.com/books/hfwd/chapter7/sidebar.html

and add headings and lists for those, too.

let's head on out

LONG Exercise Solution You should now have headings for all of your copy including the center and sidebar <div>s. ... <div id="content"> <div id="main"> <hi>The th of Dungeons Dragonsc/hi In to publish In an effort to mitigate the mounting financial problems, TSR Hobbies, Civil War. d on differe Inc w and Kaye a playing ga reverue fo Magazines Blume. Dav LizPaperhack firth left, while role Roundheads <div id="center"> focus thei < <img src="http://www.headfirstlabs.com/books/hfwd/chapter7/center.jpg" <hl>A <1 width="200" height="100" alt="An image" /> In includ Fusce varius sodales lacus. Proin in odio sed urna vehicula tincidunt. and Gygax ≤ 1 Nullam non magna a tellus sodales volutpat. Quisque tempor ipsum ac lacus. board of d li><1 Nam sit amet nibh sit amet ligula imperdiet mattis. Morbi turpis, Aenean Kevin Blum dictym. Vastibulum - - - - negue, tempus nec. pellent aue Rol curs fring <d1> such <11> posu <dt>New Candy Store Opens</dt> <11> neque <dd>Sweet! A new candy store. Now you can satisfy those sugar <1i>> dolor cravings.</dd> Dunge <11> Blume landsd <dt>Webville Diner Robbed</h1> id un comme 0 <dd>The thieves appeared to be a loving couple until they jumped up on Unl vita the table, that is.</dd> majority o laor resul intell <dt>Job Opportunity</dt> <hl>Su of mi of the eget <dd>I.T. Support required by parents in and around Webville, no need to vene unapp succes TSR apply, simply call home!</dd> rhond States and dired market assum allowe temp <dt>Starbuzz, new range</dt> moved into Proi and B publi: unrelated <dd>In Business News, Starbuzz Coffee has announced a new range of fruit nunc Greenfield poten smoothies to be sold in store.</dd> <1nec offic relatives. sened <dt>Head First Books a "Great Read"</dt> contr successful lastin The a <1 <dd>She's back! As a movie tie-in, Lassie has been reading the <i>Head sold. had m the c First</i> series.</dd> <d: <h1>Co: the hi <dt>Concrete Cows found</dt> archet <dd>Rich oil magnate's prized concrete cows had simply been mocoved out its va compa of their paddock. produc Copyright © 2009 </d </div> </div> </div> </body> That's a heck of a lot of code. </html>

That's a heck of a lot of code. Download the full version: www.headfirstlabs.com/books/hfwd/ chapter7/copy_edited_headings.html



How are those headings and lists looking in the browser?



The Birth of Dungeons & Dragons

In 1973, Gary Gyges and Don Kaye fismided Tactical Studies Rides (TSR) to pathlish the rules for Cavaliers and Roundheads, a game based in the English Civil War. Cavaliers and Roundheads was the initial focus of TSR, but Gyges and Kaye also wished to pathlish the rules for Dangsons & Dragons, a rule playing game developed by Gygas. As Cavaliers and Roundheads began generating revenue for TSR, the pathership was expanded to include Dave Ameson and Brian Blume, Dave was brought into the pathership as a game designer, this won left, while Brian Blume emiral us a finaler. Blume believed that Cavaliers and Roundheads was not generating enough revenue and ecouraged Gygas and Kaye to here there on releasing Dangeron & Dragons.

A New Beginning

In 1975 Don-Kaye died of a stroke. The immediate result was that Filame and Gygex dissolved TSR and immeded a new company named TSR Hobbies, Inc. The board of directors for TSR Hobbies, Inc. consisted of Brian Filame, Gygax, and Kevin Filame.

Roles were assigned as follows:

Corp

0 0

- · Brian was President of Creative Affairs
- Kevin was President of Operations
 Gygax was the new company's CEO and President

Unlike the equal partnership of TSR, brothers Brian and Kevin owned a majority of the new company's shares.

Success and Diversificati

TSR Hobbies, Inc. exp domains such as by nevellepoint basin advenure body I love what you've done with the text, But the site doesn't feel "newspapery" enough. Even though we're changing the format a little, I still want to keep it looking like the printed version.

> Here's a copy of the paper in print. What can you do to make the two look more alike?

The Nipster Intelligencer

eran to mentional the comment's much. They mented into

NEWS TO HE **Building a Fixie** cago, II. – Lorem ipsum dolor sit

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BARBELL

BRAIN



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FEB 28, 2006

Newspapers have a distinct typographic look and feel. Go pick up your local paper, and think about how the type looks. Is it serif or sans serif? Are the lines spaced far apart or close together? What about the look of the newspaper's typography make it look "newspapery"?

Mix fonts to emphasize headings and other text

Using a different font for your site can dramatically change the feel and emotion of the design. On top of that, different fonts can make your text more readable and make life easier for your users. There are two distinct categories of fonts for the web: **serif** and **sans-serif**.

A mix of serif and sans-serif fonts can add a nice touch to pages and help separate content from headings. It also allows you to render serif fonts at a larger size and keep the body content in a sans-serif that can be safely displayed in a smaller size.

Serif fonts used as large headings can create nice contrast from body content

Because sans-serif fonts are easier to read at smaller sizes, they work well for main content sections. ● ○ ○ < ▶ C S + Mate://www.headfirstlabs.co

The Birth of Dung

In 1973, Gary Gygax and Don Kaye founded Tac Roundheads, a game based in the English Civil and Kaye also wished to publish the rules for Du and Roundheads began generating revenue for Blume. Dave was brought into the partnership as Blume believed that Cavaliers and Roundheads focus their efforts on releasing Dungeons & Drag

A New Beginning

In 1975 Don Kaye died of a stroke. The immediat company named TSR Hobbies, Inc. The board of Kevin Blume.

Roles were assigned as follows:

- · Brian was President of Creative Affairs
- Kevin was President of Operations
- Gygax was the new company's CEO and P

O



character.

Geek Bits

Serif fonts look like Times New Roman and are defined by the small projections—or "serifs"—that extend off the main stroke of the

Sans-serif means "without (sans) serif" and is composed of font families like Helvetica and Arial. Sans-serif fonts are easier to read on screen because the relatively low resolution of computer monitors makes serif fonts look blurry, especially at smaller sizes.

This doesn't mean you can't use serif fonts on the web; they just need to be used properly and rendered large enough so that they can be easily read by your users.

Hmm. That's not exactly what I'd call "subtle." Couldn't we introduce some variation by making the headings different sizes?

We could, but be careful. Do you mean text size or heading level?

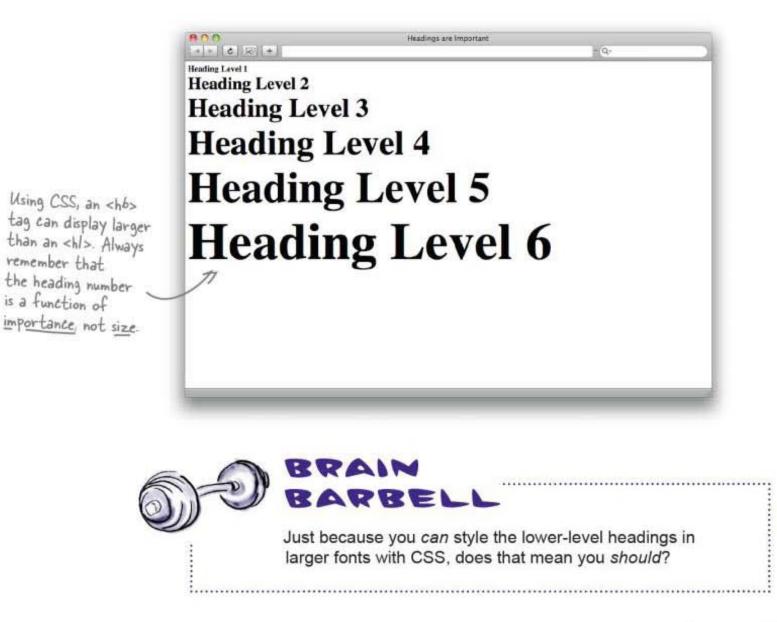


The <u>level</u>, not the <u>size</u>, of a heading conveys importance

HTML comes out of the box with six different header levels: <h1> through <h6>. With no stylesheet (just the naked markup), most browsers will render <h1> in the largest text and <h6> the smallest.

Remember, HTML's a markup language and isn't intended to convey style information. The different heading levels are used to **signify importance** in your content. A level one heading <h1> is the most important heading, <h2> is next-most important, and so on.

When you're marking up your sites, remember to make main headings <h1> or <h2>, and other sub-headings a lower heading level. This will ensure that the site is semantically correct and search engines are interpreting your content correctly (remember, the bots can't actually see your design).



serif vs sans-serif



Serif:

I've been around a lot longer than you, Sans-serif. I've worked with newspapers and books for years, so I can't understand why I wouldn't be a perfect fit for the web... Sans-serif:

who makes the better web font.

Tonight's talk: Serif and Sans-serif discuss readability and

Listen, just because you're easier to read in a book or magazine, doesn't mean you're better for the web. All those little "serifs," as you call them, make you look blurry on screen. And don't even get me started on how you look at small font sizes. Not. Even. Legible.

Like you're so readable at small sizes. Plus, the user can resize the text in their browser. Everyone knows that. And what do you mean *I look blurry on a computer monitor*. Most folks have those fancy screens anyway.

Oh man. First of all, not everyone knows how to resize text in their browser, and there's a *huge* difference between screen and print resolution. Those fancy flat screen monitors still don't even come close to matching the resolution of text printed on a page. Ever try to read a whole book on your fancy computer monitor? The eye strain would be so bad, you'd never finish. Why make that worse with a serif font?

That was a low blow. I thought this was supposed to be a civilized conversation? Can you back any of that up with proof. big guy?

Oh, uh, okay, point taken. But you have to admit that there are some nice-looking serif fonts, including **Georgia**, which was made specifically for the web. www.webstyleguide.com/type/face.html

Serif:

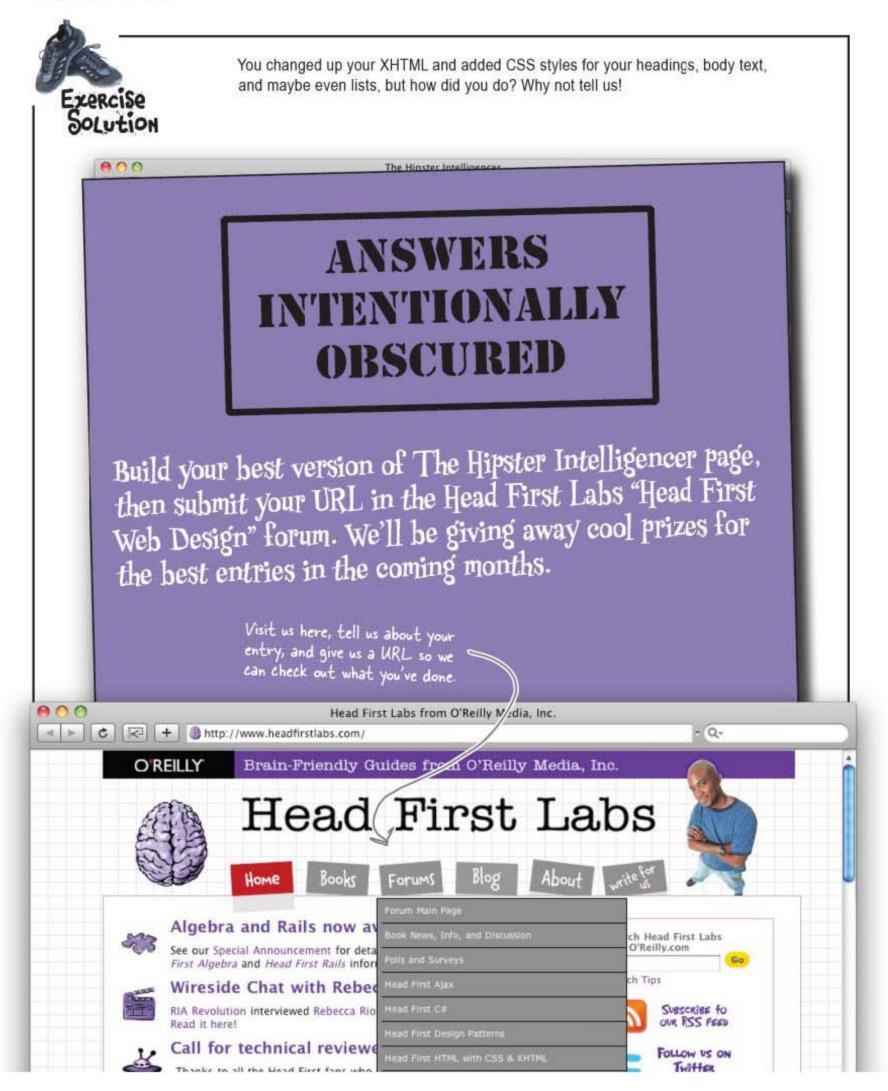
It is kind of nice being the default browser font. I couldn't ask for better publicity right out of the gate. But you know, **Helvetica**'s out there spreading the good word on sans-serif, and **Verdana**'s made some noise on the web lately.

Sans-serif:

Even I'm a fan of Georgia, especially for headings. But you're *everywhere* these days.

You're okay when you sit down face-to-face. You could do wonders for my pages if I use you in the right place...

K	Okay, you're on to the final stretch. Here's what's left to do:
Exercise	Change up your XHTML to use the different heading levels. Don't rely on your CSS to show what level each
	Create CSS styles for the different heading levels
	Use CSS to style the main content text.
	Do you like how your lists look out of the box? Use CSS if not!
	Keep this page open and tick off each to-do as you complete it.





Your Web Pesign Toolbox

You've got Chapter 7 under your belt, and you now know the ins and outs of writing good web content. You should be able to write organized, scannable web text. But there's still more... keep reading!

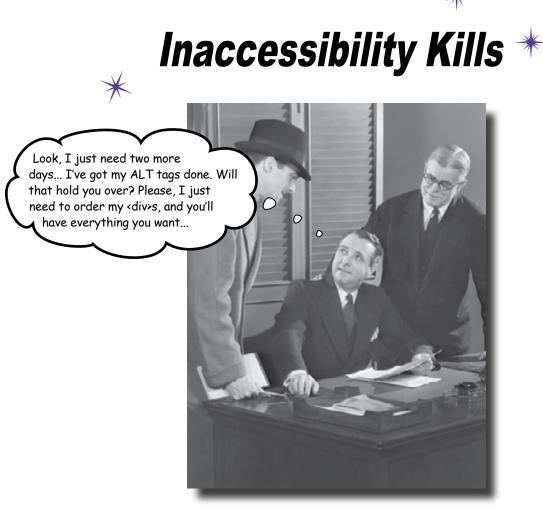
BULLET POINTS

- People read text off of a screen 15% slower than off a printed page.
- The low resolution of monitors (compared to a printed page) often results in eye straining-making it uncomfortable to read text off a screen.
- On the web, people don't read text like they do on a printed page. Instead, they scan it, looking for keywords, sentences, and paragraphs that are meaningful to them.
- Write your text like an inverted pyramid

 with a general summary at the beginning and detail after. The idea is that users can stop reading at any time and still be confident in the fact that they've already gotten the most important pieces of information.

- Always write at least 15% less text for a website than you would for a print document.
- Use lists to break up large blocks of text and give the user's eye something to latch onto when they are scanning your page.
- Headers make text more scannable. Not only do they break up large blocks of text, but they also tell the user what the paragraph is about.
- Sans-serif fonts are easier to read on a screen than serif fonts, especially at smaller font sizes.





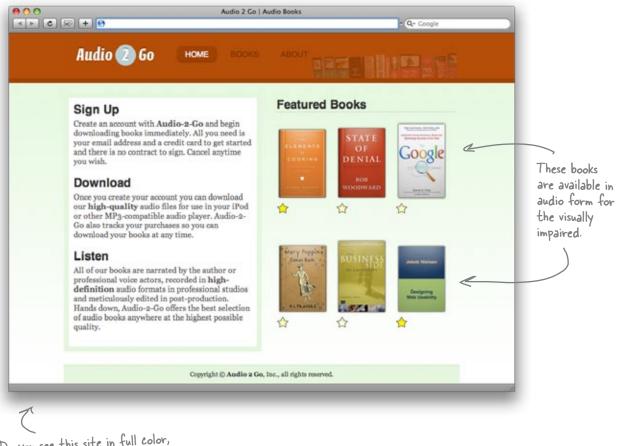
Who's missing out on experiencing your website, right now?

You may have a beautiful, well-laid out, easily navigable site... but that doesn't mean everyone's enjoying it. Whether it's someone who's visually-impaired, or just a user who has trouble distinguishing blues from greens, your site must be **accessible**. Otherwise, you're losing users and hurting your business. But don't worry: **accessibility isn't difficult!** By **planning the order of your markup**, using **ALT** attributes and **LONGDESC** tags, and **thinking about color**, you'll widen your audience immediately. Along the way, you may even get **WCAG certified**. What's that? Turn the page, and find out...

Audio-2-Go: inaccessible accessibility

Audio-2-Go is a site that sells audio books for the blind and visually impaired. But the owner's got a problem: his site doesn't work for those who can't see! It turns out that the firm who did his site didn't know anything about accessibility, and now he's losing customers faster than you can say, "But I can't **see** what your site looks like!"

It's up to you to take Audio-2-Go to its audience: those who depend on accessibility every day.

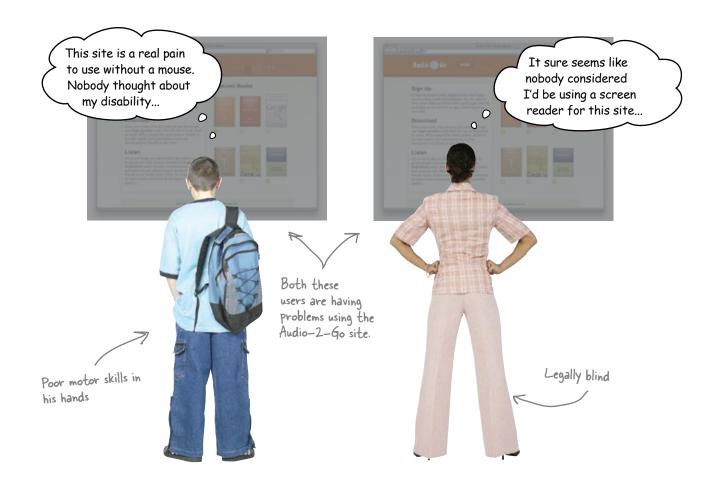


Do you see this site in full color, at high-resolution? Then you're probably <u>not</u> in Audio-2-Go's core audience!

Accessibility means making your site work for <u>EVERYONE</u>

So, what exactly is accessibility? When a website can't be used by someone with a disability, the site's inaccessible. When your site can be used by someone with a disability, then your site is **accessible**.

So, basically, accessibility is both the process and the techniques used to create a site that can be used by someone with a disability. Web accessibility usually deals with visual, auditory, physical, speech, cognitive, and neurological disabilities. And, on the Web, accessibility also includes designing for older individuals whose abilities are changing due to age. Accessibility is thinking about how <u>DISABILITIES</u> affect how people experience and enjoy YOUR website.



How does your site <u>READ</u>?

When you think about disabilities, one of the first things you probably think about is the visually impaired or the blind. Those disabilities have a huge effect on how your site is perceived. All your visuals become more or less irrelevant... in how they *look*, but not in how they *sound*.

The majority of people who are blind use a **screen reader** to browse the web. A screen reader is a piece of software that reads the text of a website out loud. While there are quite a few screen readers on the market, the most popular is JAWS (http://www.freedomscientific.com/jaws-hq.asp), a Windows-only product. Mac users often use VoiceOver, a screen reader built right into the Mac OS X operating system (http://www.apple.com/macosx/features/voiceover/).

Regardless of the product, a screen reader literally reads your page out loud:



A screen reader reads text

Sharpen your pencil

You can't begin to understand accessibility until you experience a website as someone who is blind or visually impaired does. Open up JAWS (they've got a great free demo) if you are on a Windows machine, or VoiceOver if you are on a Mac, and turn your screen reader loose on your favorite website. Oh... and before you start the reader, **make sure you close your eyes**.

Now that you've got a bit of an idea about how the blind and visually impaired experience the web, its time to see how Audio-2-Go's website measures up. Open up your screen reader and turn it loose on the Audio-2-Go website (http://www.headfirstlabs.com/books/hfwd/audio2go/). Write down three things you learned about the site, and then what you think the overall site is about... based just on what you heard from the screen reader.

What is Audio-2-Go about?

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What are your thoughts about overall site?	the
<u>_</u>	

A site's message should be clear...to **EVERYONE**

Audio-2-Go's message isn't so clear verbally, is it? The whole point of a website is to communicate something to your audience. That means your job is to make sure your content is just as clear to someone using a screen reader as it is to a sighted user. But when you "listen" to Audio-2-Go, a lot's lost in translation.

Here's what a few visually impaired users thought about the Audio-2-Go site:



Face it: computers are stupid!

If you want to get a handle on screen readers, and accessibility in general, you have to accept that **computers are stupid!** A computer, or a piece of software, can't figure out that your image really represents a book, and that humans want to know the title of that book. So even though your page displays a book, and an image that looks like a book, that's not what a computer sees.

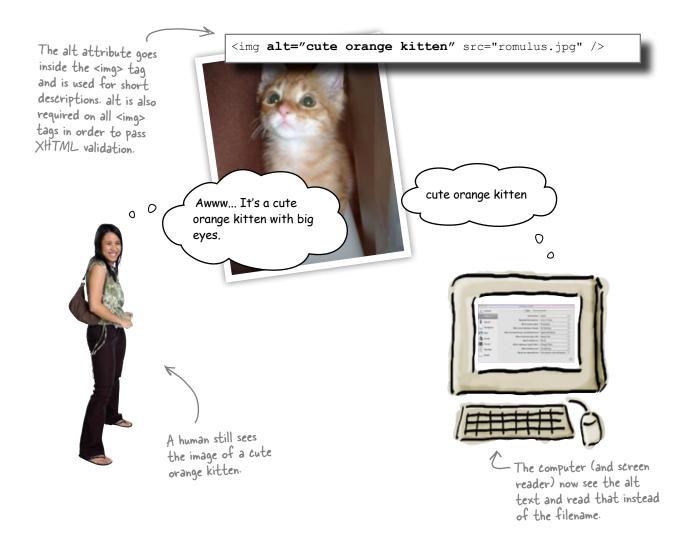


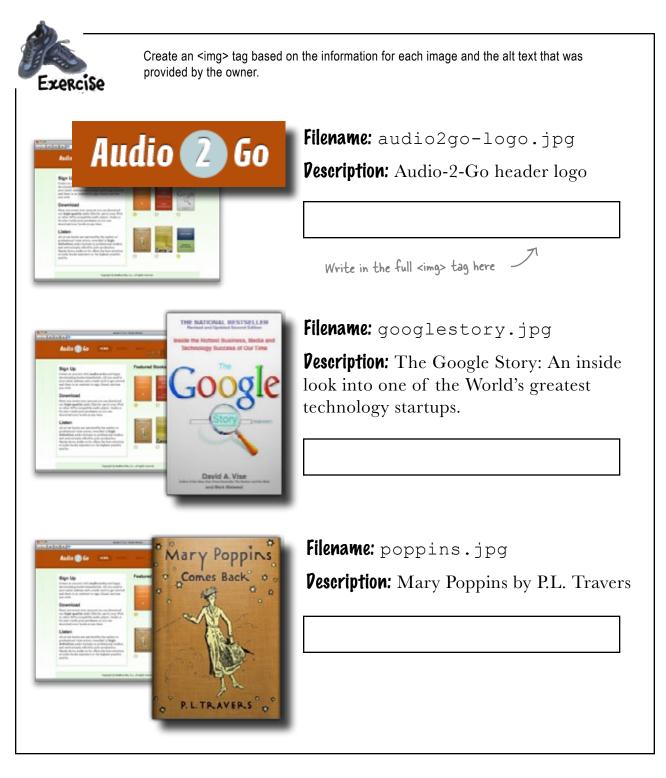
A computer will read your image's ALT text

So, what happens when a screen reader comes upon an image? Most of the time it simply reads the file name...which is absolutely no good to someone who is blind or visually impaired. Fortunately, img element's have an attribute that lets you provide your own description: the alt attribute. If a screen reader sees an image with an alt attribute, the reader reads the value of the alt attribute *instead of* the image name. Perfect, right?

Well, only if your alt text is any good.

Fortunately, good alt text is pretty easy to create. You want a short, descriptive, clear phrase. In other words, just succinctly describe the image:







Try out the Audio 2 Go site with a screen reader

Download the code for the Audio 2 Go site from the Head First Labs website. Open up index.html in your text editor and add the ALT tags from the last page. Then, fire up your screen reader and check out the Audio-2-Go site again. Any better?



I thought alt text was supposed to be short. Isn't that description of the Google Story book a bit long? It's gonna take like 10 minutes just to read the home page. Just 'cause people are visually-disabled, doesn't mean they've got hours to sit around listening, right?

EVERYONE's time is valuable.

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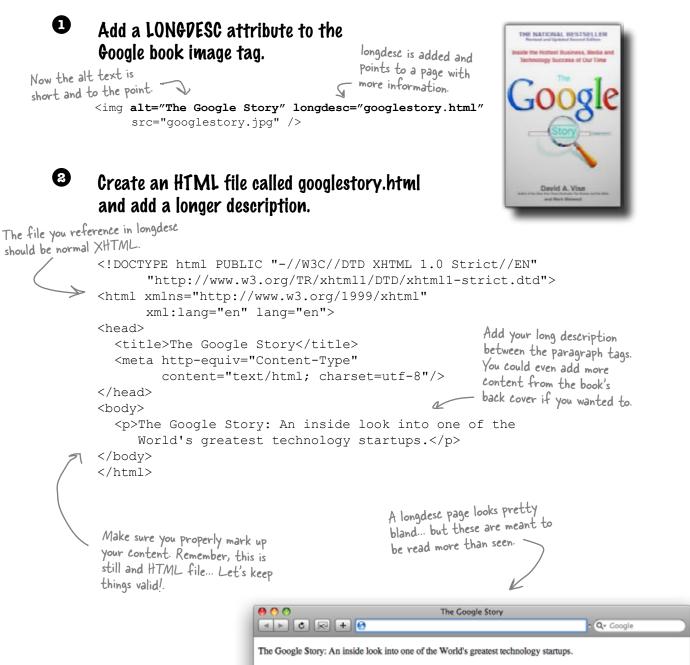
> Nobody wants to see or hear a page that's filled with text that's not relevant. Lengthy alt values are going to bog down your page and give information that's not really needed. What we need is a way to provide additional information about an element, but let a viewer or listener choose whether they want to access that additional information.

The longdesc attribute lets you do just that. longdesc gives screen readers an option to go to additional information about an element ... like a *longer description* (longdesc... makes sense, right?):

A short alt text gives a concise description of an image. longdese indicates a page that has more detail ... lots of cloying details about that cute orange kitten are available, but only if a user wants that information. cute orange kitten 0 0 Would you like 0 more information? Most screen readers let you choose to hear the longdesc page of information.

Convert your long ALT text to a LONGPESC

Let's convert the too-long alt text for the Google book to a longdesc... complete with a separate XHTML page. Here's what you should do:





Give Audio-2-Go another screen-reading try

Add the longdesc attribute to the image for The Google Story and create the corresponding XHTML file to hold the actual description. Save your files and give Audio-2-Go's main page one more run through with a screen reader.



bumb Questions

Q: Does the page with the full text description need to have the same design as the site?

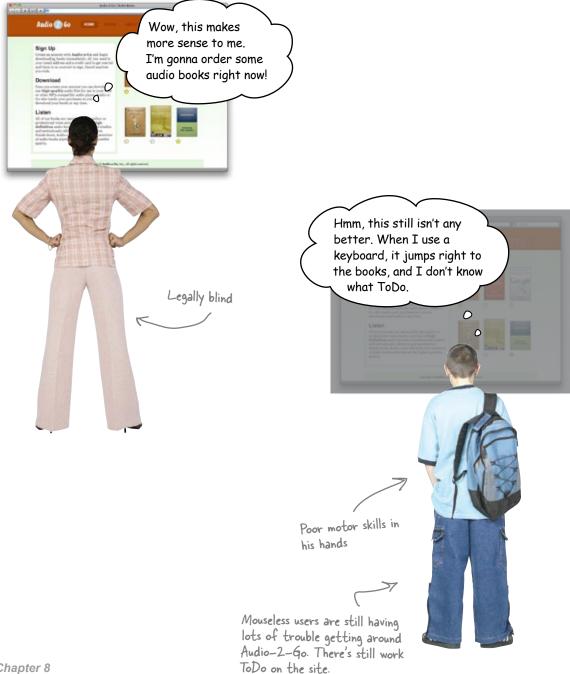
A: Nope. Description pages will only be viewed by users with screen readers. So all you need is (semantically correct) marked up text. No CSS required. **Q:** Will sighted users see the LONGDESC link?

A: longdesc is only "visible" for people using screen readers. Sighted users won't even know it's there unless they view the source code for your page. Now your reader lets you check more out about the book, without forcing you to listen to a long description if you don't want to.

Q: Does longdesc work with all screen readers?

A: Unfortunately, longdesc is only recognized by newer screen readers. Older screen readers didn't have the feature built into them. Thankfully, current versions of JAWS, by far the most popular screen reader, support longdesc.

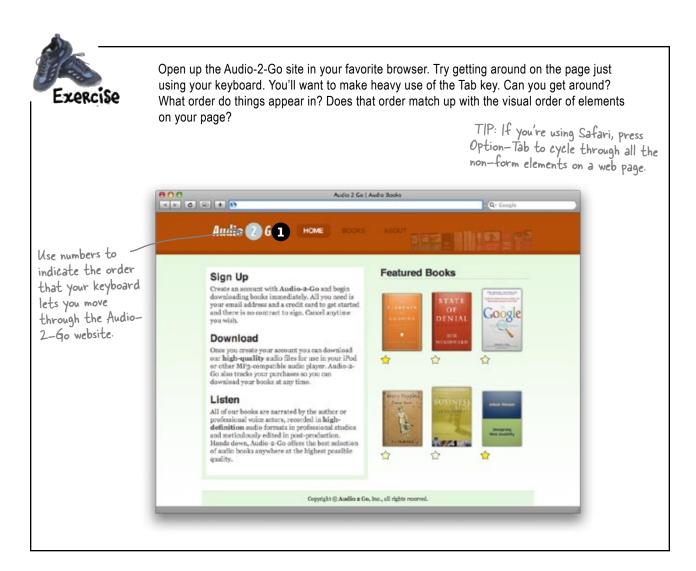
Your improvements are making a difference for <u>SOME</u> Audio-2-Go customers



Accessibility is not just about screen readers

alt and longdesc attributes will get you a long way toward accessibility... but visually impaired users aren't your only audience. Lots of folks out there have trouble with a mouse, or just prefer using the keyboard. That changes everything.

The Web without a mouse? Yup, it's going on more than you might think. And that means you've got to check your site out *without* a mouse.





Your job was to check out Audio-2-Go with only your keyboard. How did your actual results line up with what your eyes were telling you? Did the Tab key do what you expected? Here's the order of elements we cycled through:

The header and the main navigation come first. That's good... just what we want since they're at the top of the page.





Try using Audio-2-Go without a mouse *and* without your eyes. Does the tab order seem more or less important to you when "viewing" the site through a screen reader?

Tabbing through a page should be **ORDERLY**

Whether you're sighted or not, the Tab key should take you through a web page in the same order that your eyes would. That means, generally, the tab order should flow top-to-bottom, left-to-right. That's the way most sites are laid out, and the way we process sites visually.

For Audio-2-Go, then, we need to make sure the left-side text (Sign Up, Download, and Listen) comes before the book offerings. That gives users more context and tracks with what they might be seeing visually. All we need ToDo to fix this problem, though, is add a tabindex attribute to our elements and explicitly order our elements:

```
The books are items in a list. So
                                       for each book link, we provide a
<h2>Featured Books</h2>
                                       tabindex attribute
<111>
  <a href="books/1" tabindex="7">
    <img alt="the elements of cooking" src="images/elements.png" /></a>
    <br /><img alt="star" src="images/star high.png" />
  <a href="books/2" tabindex="8" >
    <img alt="state of denial" src="images/sod.png" /></a>
    <br /><img alt="star" src="images/star medium.png" />
  <a href="books/3" tabindex="9" >
    <img longdesc="google.html" alt="the google story" src="images/google.png" /></a>
    <br /><img alt="star" src="images/start medium.png" />
  <a href="books/4" tabindex="10" >
    <img alt="mary poppins" src="images/mp.png" /></a>
    <br /><img alt="star" src="images/star medium.png" />
 <a href="books/5" tabindex="11" >
    <img alt="business of creativity" src="images/creativity.png" /></a>
    <br /><img alt="star" src="images/star high.png" />
 <a href="books/6" tabindex="12" >
                                                                    These books will come after any
    <img alt="designing web usability" src="images/dwu.png" /></a>
                                                                    elements with a lower tabindex
    <br /><img alt="star" src="images/star medium.png" />
                                                                    and before any elements with a
higher tabindex.
```



All of the Audio-2-Go site needs a tabindex overhaul. Open up index.html, and give a tabindex to all the elements that you feel need one. Keep trying out your page using just your keyboard until you're sure you've got the page just right.

```
tabindex test drive
```

```
Below is the majority of the Audio-2-Go index.html markup (we
                 skipped the parts that aren't relevant). Here's how we ordered
                 things using tabindex... did you come up with the same markup?
SOLUTION
                   These got tabbed to first, but we added explicit tab indexes just to be sure.
 <a tabindex="1" title="homepage" href="index.html">Home</a>
    <a tabindex="2" title="browse books"
           href="books.html">Home</a>
    <a tabindex="3" title="about Audio2Go"
           href="about.html">About</a>
 These appear early in the markup but need to
                                         - be ordered later for keyboard users.
 . . .
 <div id="featured-books">
    <111>
      <a tabindex="7" href="/books/1">
        <img alt="the elements of cooking" src="elements.jpg" /></a>
      a tabindex="8" href="/books/2">
<img alt="state of denial" src="sod.jpg" /></a>
                                                                     - the star images
      <a tabindex="9" href="/books/3">
        <img alt="the google story" src="google.jpg" /></a>
                                                                      don't worry,
      <a tabindex="10" href="/books/4">
                                                                      there's still in
        <img alt="mary poppins" src="mp.jpg" /></a>
                                                                      our markup.
      <a tabindex="11" href="/books/5">
        <img alt="business of creativity" src="creativity.jpg" /></a>
      <a tabindex="12" href="/books/6">
        <img alt="designing web usability" src="dwu.jpg" /></a>
 </11]>
                                These links are further down in the markup, but
 </div>
                                this text should be tabbed to <u>before</u> the markup
just above it, the book links.
 <div id="info">
        <h2><a tabindex="4" href="signup">Signup</a></h2>
         Create an account with <strong>Audio-2-Go</strong> and begin
 downloading books immediatly. All you need is your email address and
 a credit card to get started and there is no contract to sign. Cancel
 anytime you wish.
        <h2><a tabindex="5" href="download">...</h2>
        ...
        <h2><a tabindex="6" href="listen">...</h2>
        ...
 </div>
```



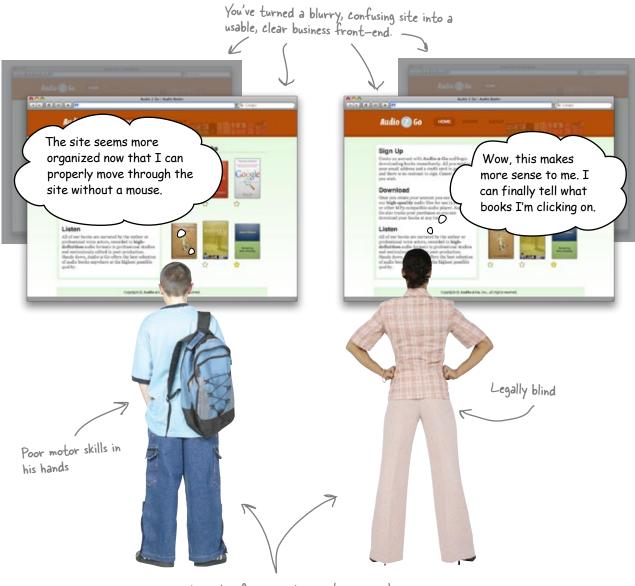
What does a keyboardless Audio-2-Go feel like now?

Update index.html to use correct tabindexes. Then, reload index.html and try working through it without a mouse.



Finally, the tab sequence should step through each of these books.

Audio-2-Go is now a LOT more ACCESSIBLE



With just a few easy changes to our markup, a large segment of our audience can now access and navigate Audio-2-Go.

Q: So without a tabindex, fields go in the order of my markup?

A: Exactly. Browsers tab through elements in the order they are detailed in your XHTML, regardless of your CSS style.

Q: So why not just put things in my XHTML in the order they'll appear on the online page?

A: That's not a bad idea... in fact, we'll talk about that a little later. Although with CSS making it easy to change display order, tabindexes still aren't a bad idea to use.

Q: The tabindex attribute can be geared toward people who prefer a keyboard over a mouse because they've got less motor control over their hands. But what about people that have no use of their hands whatsoever?

A: There are lots of web users who for one reason or another—such as paralysis or amputation—simply cannot use a mouse. Instead, they'll use alternate input systems like pointing devices such as a head-mouse, head-pointer or mouth-stick; voicerecognition software; or an eye-gaze system. Most of these systems will also pick up on your tabindexes... so that makes a logical tab order even more important.

bumb Questions

Q: Not everyone who's got a visual impairment is blind-does accessibility apply to these people as well?

A: Absolutely. Visual disabilities not only include total blindness, but also include people who have types of low vision (also known as "partially sighted"). This includes poor acuity (vision that is not sharp), tunnel vision (seeing only the middle of the visual field), central field loss (seeing only the edges of the visual field), and clouded vision.

Q: Do visual disabilities include color blindness?

A: Yup. Basically, color blindness is a lack of sensitivity to certain colors—such as red/green or blue/yellow. Sometimes color blindness results in the inability to perceive any color whatsoever.

Q: Do we have to pay any attention to hearing disabilities?

A: Both deafness and hard of hearing are things that someone who is designing an accessible website needs to worry about. This is especially important when you're working on websites that include rich media content, such as video or audio.

Q: What other kinds of disabilities should be considered when designing an accessible website?

A: Two disabilities to consider are cognitive and neurological. These include learning disabilities, such as dyslexia, attention and focus disorders, such as ADD, developmental disabilities that impact intelligence, and even memory disorders (things like unreliable short-term memory, missing long-term memory, or even the inability to recall language).

Q: How do you deal with all the cognitive and neurological disorders?

A: There are simple strategies that let you address cognitive and neurological disorders when designing an accessible website. For those with developmental disabilities, include graphics and images as an alternate way of communicating information. Also, sites with clear visual logic (something we covered back near the beginning of the book) help enormously to address many of the problems experienced by people with a wide variety of cognitive and neurological issues.



Accessibility is ALWAYS worth the extra time.

It's really easy to ask yourself why you should care about accessibility. It's unlikely that your audience will have disabilities that impact how they experience your site, right? Is this really that big of a deal?

Actually, **you almost certainly have someone with a disability trying to access your site.** The U.S. Census Bureau categorizes **19.6% of the U.S. population** as having some sort of disability. And if that's not convincing, consider just a few more reasons why accessibility is essential!



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The law <u>requires</u> you to be accessible

Section 508 of the U.S. Federal Rehabilitation Act *requires* that Federal agencies make their electronic and information technology, including websites, accessible to people with disabilities. In addition, many universities are requiring that all of their official web content be accessible.

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Everyone benefits from accessibility

Many of the enhancements and techniques used to make websites accessible to people with disabilities benefit those users *without* disabilities. Accessible websites are often easier to navigate, more user-friendly, and download faster.

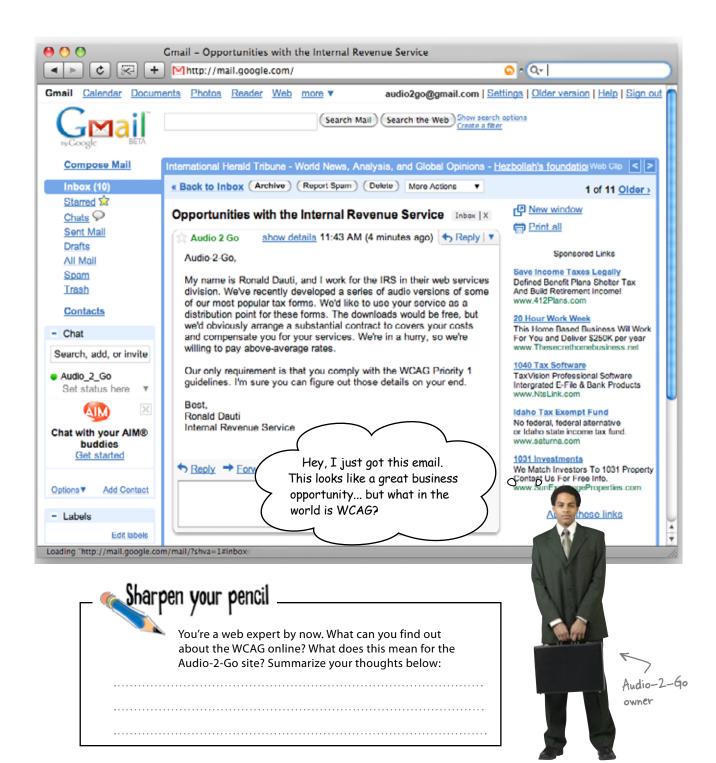
6 A(

Accessibility can help your <u>business</u>

Design studios with a strong understanding of accessibility will have an enormous advantage over those that don't. For example, federal agencies who are required to abide by accessibility standards are sometimes unable ToDo so themselves. This means that if you have experience with designing accessible websites, you'll have the opportunity to win those jobs.

Accessibility is the <u>right</u> t<u>hing</u> ToPo

Accessible websites represent an important step toward independence for many of the disabled. They provide crucial access to fundamental governmental and educational services and information that would otherwise be unavailable to individuals with certain disabilities. Designing with accessibility in mind makes the web a better place for everyone.



WCAG Priority 1

WCAG stands for Web Content Accessibility Guidelines. The W3C, the folks who come up with most web standards, have defined a set of guidelines that will allow you to build accessible sites. Follow the WCAG guidelines, and your site will be a lot more accessible than if you don't.

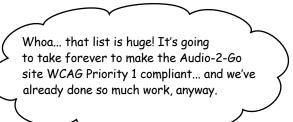
WCAG Priority 1 is the set of guidelines that the W3C considers as a baseline requirement. Ignore Priority 1 and you'll definitely leave out some part of a disabled audience. Here's what the Priority 1 guidelines look like:

C 🐼 + Chttp://www.w3.org/TR/WCAG10/full-checklist.html • Qr Googl	e		
Priority 1 checkpoints			
In General (Priority 1)	Yes	No	N/
1.1 Provide a text equivalent for every non-text element (e.g., via "alt", "longdesc", or in element content). This includes: images, graphical representations of text (including symbols), image map regions, animations (e.g., animated GIFs), applets and programmatic objects, ascii art, frames, scripts, images used as list bullets, spacers, graphical buttons, sounds (played with or without user interaction), stand-alone audio files, audio tracks of video, and video.			
2.1 Ensure that all information conveyed with color is also available without color, for example from context or markup.			
4.1 Clearly identify changes in the natural language of a document's text and any text equivalents (e.g., captions).			
6.1 Organize documents so they may be read without style sheets. For example, when an HTML document is rendered without associated style sheets, it must still be possible to read the document			
6.2 Ensure that equivalents for dynamic content are updated when the dynamic content changes.			Γ
7.1 Until user agents allow users to control flickering, avoid causing the screen to flicker.			
14.1 Use the clearest and simplest language appropriate for a site's content.			
And if you use images and image maps (Priority 1)	Yes	No	N/
1.2 Provide redundant text links for each active region of a server-side image map.			
9.1 Provide client-side image maps instead of server-side image maps except where the regions cannot be defined with an available geometric shape.			
And if you use tables (Priority 1)	Yes	No	N/
5.1 For data tables, identify row and column headers.			
5.2 For data tables that have two or more logical levels of row or column headers, use markup to associate data cells and header cells.			
And if you use frames (Priority 1)	Yes	No	N/
12.1 Title each frame to facilitate frame identification and navigation.			
And if you use applets and scripts (Priority 1)	Yes	No	N/
6.3 Ensure that pages are usable when scripts, applets, or other programmatic objects are turned of or not supported. If this is not possible, provide equivalent information on an alternative accessible page.	f		
And if you use multimedia (Priority 1)	Yes	No	N/
1.3 Until user agents can automatically read aloud the text equivalent of a visual track, provide an auditory description of the important information of the visual track of a multimedia presentation.			
<u>1.4</u> For any time-based multimedia presentation (e.g., a movie or animation), synchronize equivalent alternatives (e.g., captions or auditory descriptions of the visual track) with the presentation.			
And if all else fails (Priority 1)	Yes	No	N/
11.4 If, after best efforts, you cannot create an accessible page, provide a link to an alternative page that uses W3C technologies, is accessible, has equivalent information (or functionality), and is updated as often as the inaccessible (original) page.			

http://www.w3.org/TR/ WCAGIO/full-checklist.html This document has Priority 2 and 3, too. Audio-2-Go just has to meet the Priority I guidelines.

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298 Chapter 8



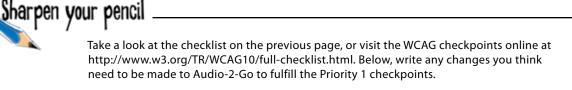


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The WCAG is <u>exhaustive</u>... but your <u>changes</u> may not need to be.

The WCAG has to cover every conceivable possibility on almost every type of site possible. That means it deals with lots of things that may not affect your site.

On top of that, lots of the WCAG checkpoints are things you should already be doing, like "Use the clearest and simplest language appropriate for a site's content." So many of these checkpoints may already be done! To meet Priority 1, you just have to take care of **applicable checkpoints** that aren't already **complete**.





Your job was to figure out what we still needed ToDo with Audio-2-Go to make it WCAG Priority 1 compliant.

<u>1.1</u> Provide a text equivalent for every non-text element (e.g., via "alt", "longdesc", or in element content). *This includes*: images, graphical representations of text (including symbols), image map regions, animations (e.g., animated GIFs), applets and programmatic objects, ascii art, frames, scripts, images used as list bullets, spacers, graphical buttons, sounds (played with or without user interaction), stand-alone audio files, audio tracks of video, and video.

We've already done this by providing alt and longdese attributes to our images.

2.1 Ensure that all information conveyed with color is also available without color, for example from context or markup.

This includes graphics and icons. Those stars that represent ratings on each book could be a problem... and what does the site look like without color?

<u>6.1</u> Organize documents so they may be read without style sheets. For example, when an HTML document is rendered without associated style sheets, it must still be possible to read the document.

ToDo

Provide a text equivalent for all non-text elements.

All color information must be displayed without color as well.

Organize documents so they can be read without stylesheets. This is sort of like tabindexes... it's about order. But this time, the order has to make sense in the markup itself. We've got some problems here.

Here's the Audio-2-Go ToDo list we came up with. How does it compare with the list of things you thought we needed ToDo?

bumb Questions

Q: What is the difference between WCAG Priority 1 and Section 508?

A: There are a few main differences. First, WCAG is a recommendation that was written by the W3C, the Internet's governing body. Although the W3C has no authority to enforce its recommendation, it is considered the standard in making sure sites are accessible to individuals with disabilities. Section 508 is a US Government requirement that is based on the WCAG Priority 1 standards. 508 requires all government agencies and companies that do business with the government to comply with the law. 508 is not enforceable in the private sector as long as a company isn't doing business with the government.

Q: Can you be arrested for not complying with WCAG?

A: Not at all. WCAG is strictly a guide for making your website accessible. Plus, the W3C doesn't have authority to arrest you (or fine you, for that matter). Still, ignoring WCAG is like ignoring a part of your audience, and that's not a good thing. Even a few days spent on accessibility can have a huge impact on your site.

Who decides if my site meets the guidelines? A: For the most part, you decide. If you have followed along with guidelines and made an effort to make your site as accessible as possible to users with disabilities, you can call yourself accessible. Because Section 508 is a law, there are online services you can use that check and make sure your code is accessible. They will often allow you to post "badges" on your site that advertise the fact that your site meets the 508 requirement. Similar services are also available for the WCAG.

Ignoring accessibility is ignoring a part of your AUDIENCE. It hurts you, your site, and your users.

Think about accessibility as a <u>CRITICAL</u> <u>PART</u> of every website that you design.

Color shouldn't be your <u>ONLY</u> form of communication

You already know that color has an emotional impact. It'd be hard to imagine a site *without* color... but that's just how some people view at least a part of your websites. That's why you must convey everything on your site with more than **just** color.

ToDo

Provide a text equivalent for all non-text elements.

All color information must be displayed without color as well.

Organize documents so they can be read without stylesheets.



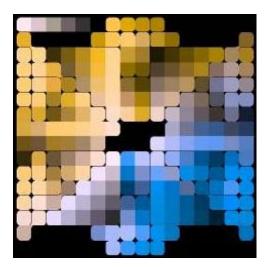
Life through web-safe eyes...

You've probably heard about web-safe colors before. Those are the colors that most people say are going to look consistent on different resolutions and monitors. Here's a palette of web-safe colors:



Life through color-blind eyes...

But is this palette really "web-safe"? Take a look a the same palette through the eyes of someone with color blindness:



* These images are from a scan of a Visibone book (http://www.visibone.com/products/browserbook.html). These two palettes look completely dissimilar... which one do your users see?

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How do you think color-blindness can affect your choice of color palette? Do the triadic and tetradic color palettes offer any help in dealing with color blindness?

Audio-2-Go, via color-blind eyes

Let's take a look at Audio-2-Go through a few different sets of eyes. Depending on the cones available in the viewer, our nicely designed Audio-2-Go site can look totally different:



Original

This view shows a diminished color scheme, but most of the elements are still distinguishable.



Peutanopia (no green cones)

and the second s	Feature	d Books			
Sign Up.	reature	a buuka	-		
begin downloading books insteadanty. All you used is your result address and a swell card.	-	and the second second	(TIMANY)	This	is a namen type of cold
to get elasted and there is no overtimet to elgn. Caterel any/fatat year with.	an and the second	STATE	C. A.	Inis	is a rarer type of colo dness that affects yello stars are completely us
Download.	and the second second	DENTAL	Google	blind	dness that attects yello
Over you create your accesser you can deven-		Sold Income	1	The	stars are completely us
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player. Andles a On also tracks your purchases an you can download your books at any time.					
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definition and/or formate in professional studios and meticalously edited in post-	A.	and the second s	Contraction of the		
production. Hands down, Andro 2-Go offers the hert actortion of audio books anywhere at	14	1000	and the second second		
the highest possible quality.	a summer of	and the second division of	the lasting		

Tritanopia (no blue cones)

Protanopia looks very similar to Deutanopia when comparing the Audio-2-Go site. The page looks bland, and the stars seem to blur together a fair bit.



Protanopia (no red cones)

Those stars are a real problem

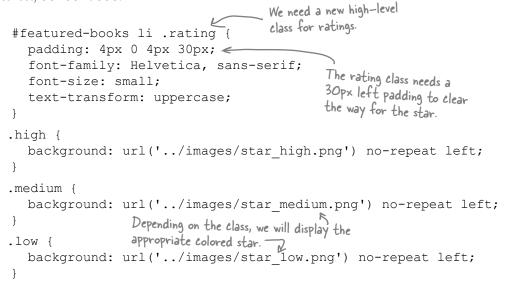
So the stars at Audio-2-Go are a problem. It's not bad that they're in color, but it's bad that they *only* convey information through color. Remember one of the easiest ways to fix bad graphics or navigation? **Add text!**

So for the ratings, we can simply add in a textual rating. Then, we can add the stars as a background image, just like we did with navigation back in Chapter 6:

```
<div id="featured-books">
  <111>
    <a tabindex="7" href="/books/1">
       <img alt="the elements of cooking" src="elements.jpg" /></a><br />
       <span class="rating high">Rating: 8</span> <</pre>
    Add a line break and
    <a tabindex="8" href="/books/2">
                                                                    a span to hold the
       <img alt="state of denial" src="sod.jpg" /></a><br />
                                                                    rating number.
       <span class="rating medium">Rating: 5</span>
    <a tabindex="9" href="/books/3">
       <img alt="the google story" src="google.jpg" /></a><br />
       <span class="rating medium">Rating: 6</span>
    <a tabindex="10" href="/books/4">
       <img alt="mary poppins" src="mp.jpg" /></a><br />
                                                                        index.html
       <span class="rating low">Rating: 3</span>
    <a tabindex="11" href="/books/5">
       <img alt="business of creativity" src="creativity.jpg" /></a><br/>br />
       <span class="rating high">Rating: 9</span>
    <a tabindex="12" href="/books/6">
       <img alt="designing web usability" src="dwu.jpg" /></a><br />
       <span class="rating medium">Rating: 6</span>
                                        We'll class the span "rating" and then give it
    another class depending on the rating (low,
  </11]>
</div>
                                        medium and high respectively)
                 there are no
               Dumb Questions
    So we can't use visual indicators, like the stars, anymore?
A: You definitely can. You just can't only use visual indicators. So if you use the visual
of a thermometer, you'd need to put a textual description next to that thermometer.
```

still Background images are^Ayour friend

Now we can add the stars back into the page, using CSS and the background property. So we need to make some additions to our stylesheet, screen.css:





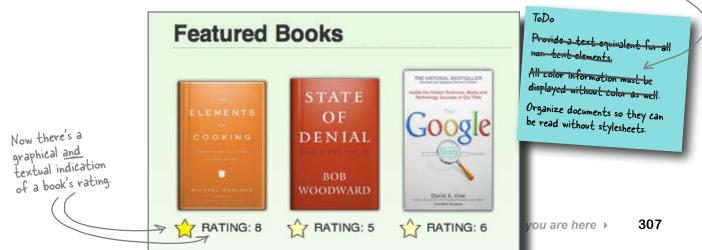
screen.css



Color, without depending on color?

Update your versions of index.html and screen.css. Then reload the Audio-2-Go page and check out the featured ratings of the books.

We can tick off this checkpoint now.



There's more to ordering than just tabindexes

You've already used the tabindex attribute to make sure that the Tab key moves through your document in the right order. But the WCAG goes further: since there are certain accessibility devices that don't use standard keyboards, your actual *markup* has to be in order.

In other words, to meet WCAG Priority 1, you've got to order your XHTML in the sequence your content should be viewed, regardless of any CSS and tabindexing.

This site has its content below almost everything Header else ... which might look great styled with CSS, but won't Sidebar Here's the same sequence of satisfy WCAG requirements. elements, but ordered how Featured Links you'd want someone to view or hear the content. Masthead Content Header Footer Masthead Content The ordering of things here is... difficult to follow. Sidebar **Featured Links** Footer Just because your XHTML is standards compliant doesn't mean your XHTML meets this WCAG checkpoint. Having your site validate as valid XHTML just means that your markup is correct and without errors. The WCAG checkpoints make sure that you are using that markup to make your site as accessible to as many people as possible. The two are related, but not at all the same.

ToDo

Provide a text equivalent for all

All color information must be

displayed without color as well-

Organize documents so they can

be read without stylesheets.

non-text elements

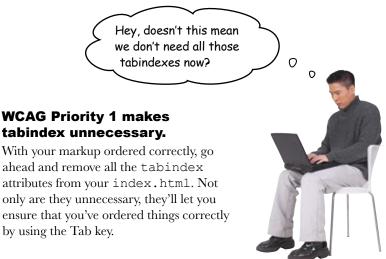
```
It's time to tick off another Priority 1 checkpoint with Audio-2-Go. Here are the relevant parts of
           the Audio-2-Go index.html. It's up to you to re-order the content. Good luck!
                                The tab indexes give you some ordering ... but the actual
                                 markup isn't in the right sequence.
<a tabindex="1" title="homepage" href="index.html">Home</a>
  <a tabindex="2" title="browse books"</li>
         href="books.html">Home</a>
  <a tabindex="3" title="about Audio2Go"
         href="about.html">About</a>
. . .
<div id="featured-books">
  <111>
    <a tabindex="7" href="/books/1">
      <img alt="the elements of cooking" src="elements.jpg" /></a>
    <a tabindex="8" href="/books/2">
      <img alt="state of denial" src="sod.jpg" /></a>
    <a tabindex="9" href="/books/3">
      <img alt="the google story" src="google.jpg" /></a>
    <a tabindex="10" href="/books/4">
      <img alt="mary poppins" src="mp.jpg" /></a>
    <a tabindex="11" href="/books/5">
      <img alt="business of creativity" src="creativity.jpg" /></a>
    <a tabindex="12" href="/books/6">
      <img alt="designing web usability" src="dwu.jpg" /></a>
  Hint: You may want to remove the tabindexes and use
Tab to see how your page is "naturally" ordered.
</div>
. . .
<div id="info">
  <h2><a tabindex="4" href="signup">Signup</a></h2>
  Create an account with <strong>Audio-2-Go</strong> and begin
downloading books immediatly. All you need is your email address and
a credit card to get started and there is no contract to sign. Cancel
anytime you wish.
  <h2><a tabindex="5" href="download">...</h2>
  <q>>...<q>
  <h2><a tabindex="6" href="listen">...</h2>
  ...
</div>
                                                                   index.html
```





We don't need no stinkin' tabindexes.

Rearrange the order of your index.html, and then reload the page. Things should look the same, but now we're WCAG compliant.



Using the Tab key is a great way to verify your site stays in order, even when you add new sections.

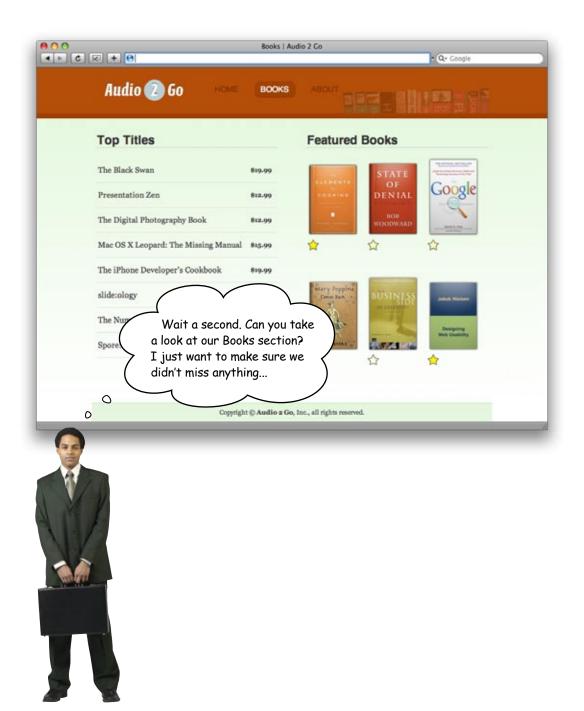


We've got another item we can cross of our list. We're done, right?

ToDo

Provide a text equivalent for all non text elements.

All color information must be displayed without color as well. Organize documents so they can be read without stylechects.



Sharpen your pencil

What WCAG checkpoints need to be taken care off on the Books page? Look back through the checklist on page 298 (or online), and see if there are any additional checkpoints that might apply... write what you think you need ToDo in the ToDo list below.

 These all have to be
handled for the Top
Titles page as well.
 Provide a text equivalent for all
non-text elements.

 All color information must be
displayed without color as well.
 Hint: the Top Titles list is a table.

 Organize documents so they can
be read without stylesheets.
 It is a table.



Now that you know what needs to be done to the Books page, open up books.html. It should be in your chapter download files. Update the XHTML to be WCAG compliant, and meet all priority 1 checkpoints. Then turn the page to see if you caught everything.

```
Your job was to update the books.html XHTML to be WCAG compliant and meet all priority 1
             checkpoints.
Exercise
                                                  ToDo
SOLUTION
                                                  Provide a text equivalent for all
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict/
                                                  non-text elements.
          "http://www.w3.org/TR/xhtml1/DTD/xhtml1-st
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang=
                                                 All color information must be
<head>
  <title>Books | Audio 2 Go</title>
                                                 displayed without color as well.
  <meta http-equiv="Content-Type" content="text/htm"
  <link rel="stylesheet" href="stylesheets/screen.c</pre>
                                                 Organize documents so they can
        type="text/css" media="screen" />
</head>
                                                 be read without stylesheets.
<body>
  <div id="wrap">
                                                 All tables need row and
    <div id="header">
      <h1><img alt="Audio 2 Go logo" src="images/a
                                                column headings.
      <a title="Audio 2 Go home" href="index"
        <a class="active" title="Audio books"
              href="books.html">Books</a>
                                                              Did you get this one? Since the
        <a title="About Audio 2 Go" href="#">About</a>
                                                              Books page has a table, we've
      got to add table headings.
    </div>
    <div id="book-list">
      <h2>Top Titles</h2>
                           5.1 For data tables, identify row and column headers.
      <table cellpadding="0"
        Book Title
                                We just need another table row,
          Price
                                with a heading for each column.
        The Black Swan
          $19.99
        Presentation Zen
          $12.99
        The Digital Photography Book
          $12.99
        Mac OS X Leopard: The Missing Manual
```

```
$15.99
       The iPhone Developer's Cookbook
        $19.99
       slide:ology
        $7.99
       <t.r>
        The Numerati
         $11.99
       Spore: Official Game Guide
                                                       This page was already ordered
        $21.99
                                                        correctly, with headings, then
       the Top Books list, and then
     the features. So we didn't need
   </div>
                                                        ToDo any re-ordering.
   <div id="featured-books">
     <h2>Featured Books</h2>
     <a href="books/1"><img alt="the elements of cooking"</li>
             src="images/elements.png" /></a>
          <br /><span class="rating high">Rating: 8</span>
       <a href="books/2"><img alt="state of denial" src="images/sod.png" /></a>
          <br /><span class="rating medium">Rating: 5</span>
       <a href="books/3"><img alt="the google story" src="images/google.png" /></a>
          <br /><span class="rating medium">Rating: 6</span>
       <a href="books/4"><img alt="mary poppins" src="images/mp.png" /></a>
          <br /><span class="rating low">Rating: 3</span>
       <a href="books/5"><img alt="business of creativity"</li>
                                                               This is the same
             src="images/creativity.png" /></a>
                                                               change we made
          <br /><span class="rating high">Rating: 9</span>
                                                               to the main page:
       <a href="books/6"><img alt="designing web usability"</li>
                                                               we need text, not
             src="images/dwu.png" /></a>
          <br /><span class="rating medium">Rating: 6</span>
                                                               just images, for
     the book ratings.
   </div>
   <div id="footer">
     Copyright & copy; <strong>Audio 2 Go</strong>, Inc., all rights reserved.
   </div>
 </div>
</body>
</html>
```



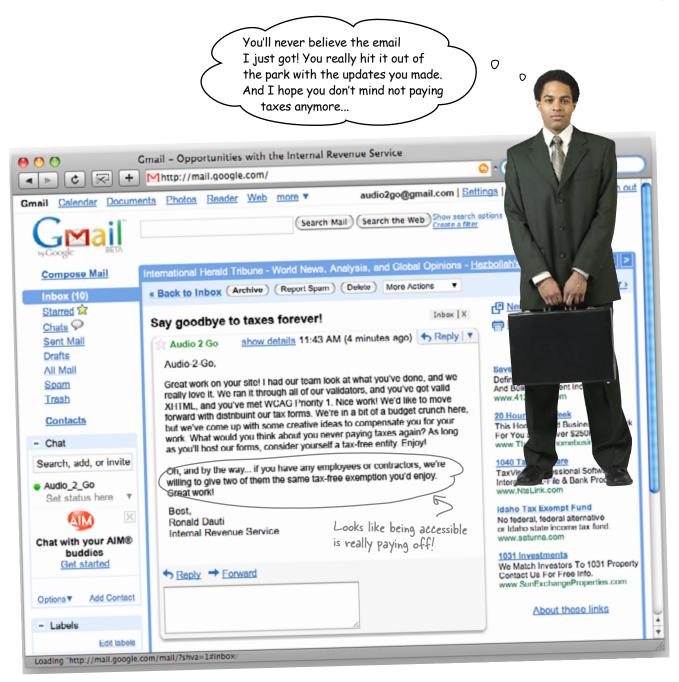
Test Audio-2-Go's accessibility

It's all well and good to implement accessibility measures, but you also need to test your site. So, how can you do this? Well, there are a couple of ways:

Get a copy of the assistive technologies in question (like a screen reader), and take the site for a test drive yourself. Or, even better, you can use software, such as Cynthia Says, that automatically checks a site for WCAG compliance: http://www.contentquality.com/

Update both the home page and the Books page, and see how Audio-2-Go looks.







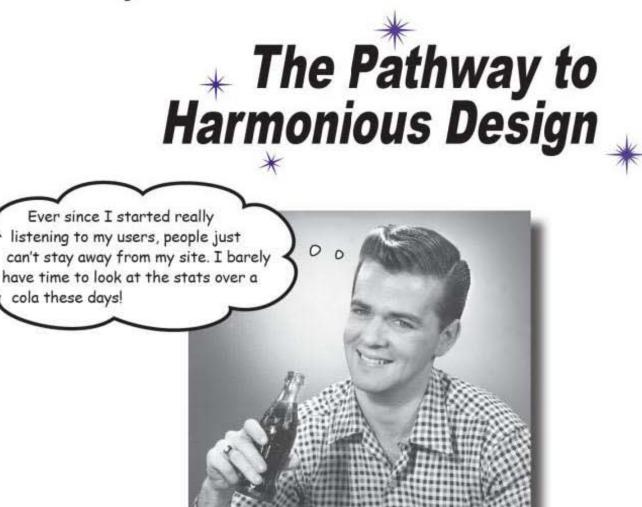


BULLET POINTS

- Accessibility is both the process and the techniques used to create a site that can be used by someone with a disability.
- A screen reader is a piece of software used by the blind and the visually impaired that reads the text of a website aloud.
- The ALT attribute (which is part of the IMG element) allows you to provide an alternate text description for an image—which is read by the screen reader.
- LONGDESC is an attribute of the IMG element which provides a link to a page which contains a text description of an image that is too long for an ALT attribute.
- People who have lost motor control of their hands often use the tab key instead of a mouse to move from link to link on a webpage.

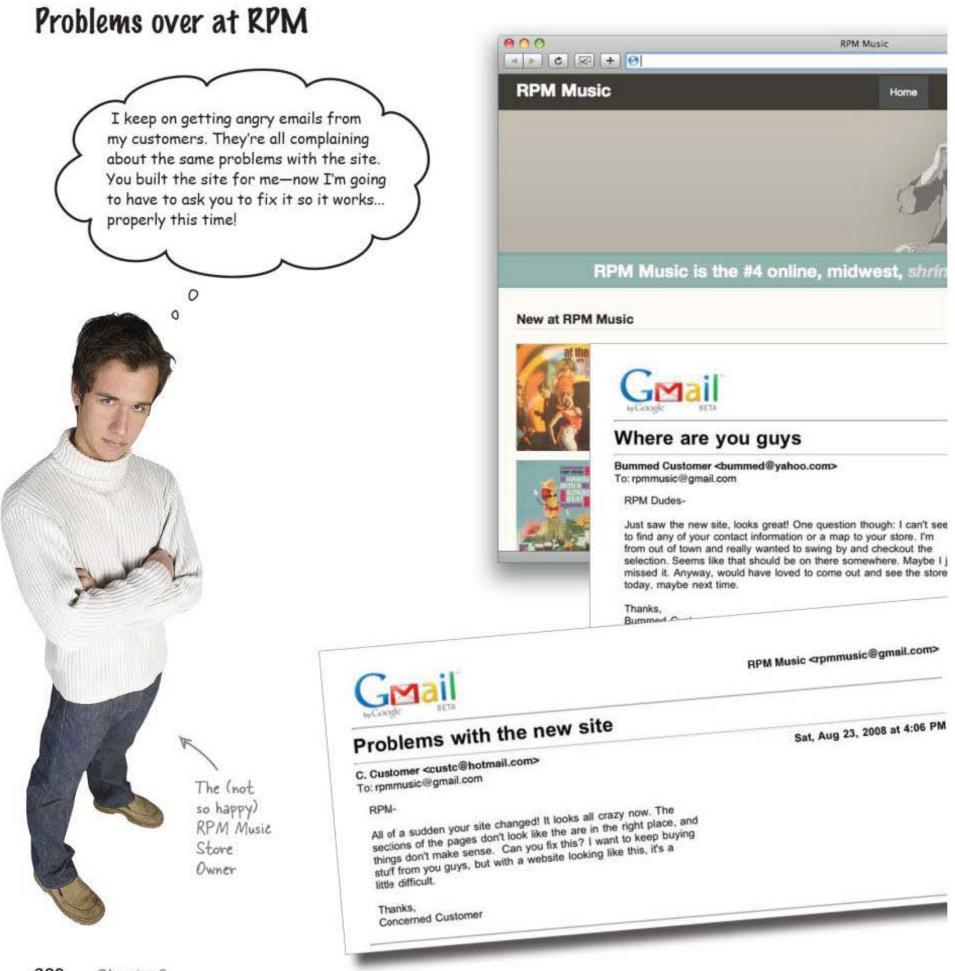
- TABINDEX lets you manually set the position of a specific link in a tab sequence.
- The Web Content Accessibility Guidelines (WCAG) from the W3C were the first major effort to establish guidelines for accessible design—it consists of fourteen guidelines, each with three checkpoint levels.
- You don't have to worry about items on the WCAG checklist that don't apply to your site.
- Organize the markup of your page so that it reads logically if it were not rendered with a style sheet.
- Make sure that all information conveyed with color is also available without color.
- If you use tables in your site, make sure that columns and rows have headers.
- Use software like Cynthia Says to check the accessibility of your site.

9 listen to your users



Good design is all about really listening to your users.

Your users can tell you what's wrong with your site, what's right with your site, how you can fix things (if necessary) and how you can improve your site. There are lots of ways you can listen to your users. You can listen to them in groups (using tools like surveys), listen to them individually (with tools such as usability tests), and listen to their collective actions on your site (with tools such as site metrics and statistics). Whatever method you use, its all about "hearing" what your users are saying. If you do, your site will meet the needs of your audience and be that much better for it.



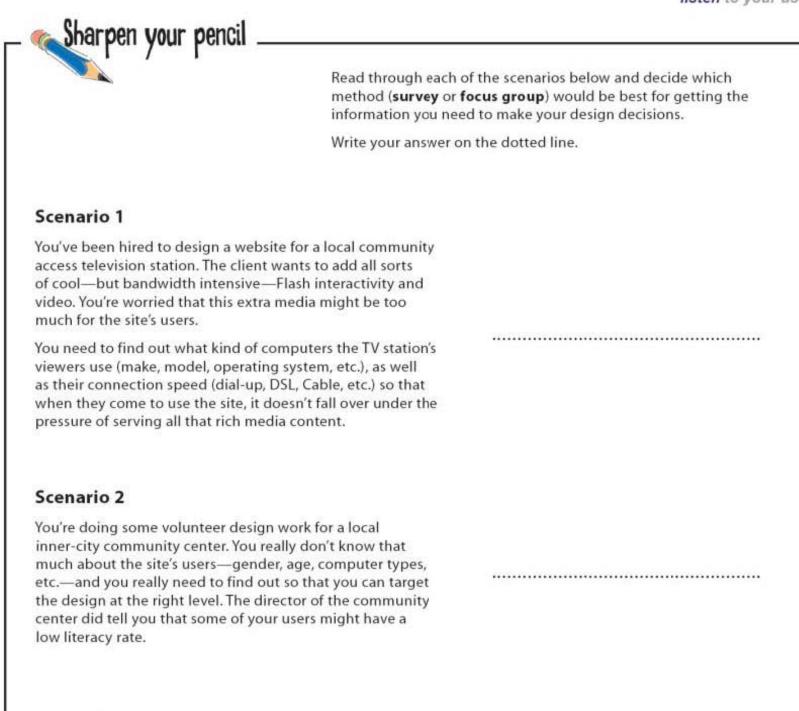


Let your audience speak to you through focus groups and surveys

When you're designing, redesigning, or fixing a site, you need to be able to ask your audience questions. Who are they? How often do they use the Web? What kind of computer do they use? What do they like about the site's current design? Do they like the site's proposed new design?

This is where focus groups and surveys come into the picture. Both are great tools for giving your audience a "voice"—letting them give their opinions, answer your questions, and even give feedback in unexpected ways. It's important to know that surveys and focus groups have different strengths and weaknesses, and those could impact which you use. Let's take a look at some pros and cons of both: Remember, as we talked about in Chapter 4, surveys are a great tool for building personas at the beginning of your design process

	PROS	CONS
Surveys	Require a relatively short time commitment from survey participants	Require a lot of advanced planning
	Can be administered to a huge amount of people	Written surveys may present problems for lower level readers
	Can be administered in lots of ways (paper, online, by phone, in person)	Survey questions might be misinterpreted
	Participants can often complete the survey at their own leisure	
Focus Groups	Allow participants to build on each other's ideas	Require larger time commitment from participants
	Collects information on a very specific topic from those who have a stake in the topic	Usually require compensation for the participants
	Benefits from a trained facilitator	Public environment may intimidate some participants
		Requires a trained facilitator



Scenario 3

You and some friends are launching a new social network for web designers and developers. You're at the point where you've got a couple of different visual designs (really polished storyboards), and you need to get some specific feedback on what your potential audience thinks of the site's design. You're also pretty sure that your audience (who are designers themselves) will probably be up for sharing some their great design ideas with you.



Let's take a look at whether a survey or focus group is the best choice for each of the scenarios. How will you implement your choice?

Scenario 1

You've been hired to design a website for a local community access television station. The client wants to add all sorts of cool—but bandwidth intensive—Flash interactivity and video. You're worried that this extra media might be too much for the site's users.

You need to find out what kind of computers the TV station's viewers use (make, model, operating system, etc.), as well as their connection speed (dial-up, DSL, Cable, etc.) so that when they come to use the site, it doesn't fall over under the pressure of serving all that rich media content.

Scenario 2

You're doing some volunteer design work for a local inner-city community center. You really don't know that much about the site's users—gender, age, computer types, etc.—and you really need to find out so that you can target the design at the right level. The director of the community center did tell you that some of your users might have a low literacy rate.

Scenario 3

You and some friends are launching a new social network for web designers and developers. You're at the point where you've got a couple of different visual designs (really polished storyboards), and you need to get some specific feedback on what your potential audience thinks of the site's design. You're also pretty sure that your audience (who are designers themselves) will probably be up for sharing some their great design ideas with you.



Surveys and focus groups aren't free

When you're deciding whether to use surveys or focus groups to find out about your users, there's another thing to consider: **cost**. If you start out doing user testing with the comparative costs of surveys and focus groups in mind, that may help you decide which is the right route.

Survey Costs

- 5 Time spent designing the survey
- \$ Printing and mailing (if you are conducting a paper survey)
- \$ Time spent processing and interpreting the results
- \$ Possible compensation to survey participants

Focus Groups Costs

- \$ Time spent planning the focus group schedule
- \$ Recruiting participants
- \$ Rent space to hold focus group (if you don't already have it)
- S Equipment rental (projector, screens, recording devices, etc...)
- \$ Food and/or compensation for participants
- S Time spent processing and evaluating the results
- \$ Any additional supplies
 - Cost of a trained moderator

It's customary to give focus group participants something for their time. That doesn't have to be money, but do you have the budget for pizza and drinks for all the participants you'd like to invite?

You can't just open the door and grab the nearest person - you need to put a lot of time and effort

representative of your site's audience.

into recruiting people who are

Sharpen your pencil

Now that you've got a good idea of the pros and cons of surveys and focus groups (and how much they could cost), write down the method you'd use to get feedback from the RPM Music site users. Also, write down why you chose that method.

Time is money, as they say.

A moderator will run the focus group-they're highly skilled at what they do and generally don't come cheap.

you are here >

325

go with a survey for rpm Sharpen your pencil Solution Which method for gathering feedback from the RPM Music users is probably the best, and why? Here's what we thought: Not all clients will want to go the cheapest route. User feedback is vital to getting the design of a site right A Survey! We need to get information from as many of the RPM Music customers as cheaply as possible (remember, we need to make the owner happy). Also, using a survey will allow us to collect information on browsers and operating systems - which might just provide a solution to our problem. RPM is a Web store, so it makes sense to provide users with a survey to fill out while they're online.

You're going to use a survey to try to get at the root of the problem? Ok, that sounds good. You can use my customer database to get in contact with my customers. 0 0 Surveys are cheap and effective, especially when you give participants the option of completing them online.



Head First: Welcome, Online Survey. We're very excited to be talking to you today outside of the World Wide Web.

Online Survey: I know, this is very exciting! It's been years since I've appeared in ink.

Head First: So tell us, why the big move to the Internet? All those tags and hypertext seem a bit overwhelming.

Online Survey: Well, it just seemed like the right move. I mean, sure, the initial setup took a little time, but after that I could just sit back and watch the data come pouring in.

Head First: Did you find that you received more attention as a web page than you did when you were printed on paper as a bubble sheet, say?

Online Survey: Oh, definitely. People have bad memories from high school filling out all those bubble sheets. Also, being available online makes it easy for people to take me at their leisure. No pressure, you know. Oh! And, if it's a long survey, they can save their answers and come back later.

Head First: Well that's convenient. So where do you keep all that data? If people aren't writing it down, where does it go?

Online Survey: Sometimes I just send an email with the answers. Most of the time, though, I keep everything in a database so that I can go back later and quickly see the results.

Head First: Wow! That seems technical. How do you manage all that without losing your cool?

Online Survey: Well I'm going to let you in on a little secret. I'm no wiz-bang programmer or Database Analyst, so if it's a complicated survey, I just use one of the many free survey tools available. They help me setup the questions, format, and even process, the data, and then they send me the results. In the end, I come out looking like the hero.

Head First: Interesting. Don't you feel like you're cutting corners if you don't do all the work yourself?

Online Survey: Hey, if you want to spend all day writing code and HTML tags, that's your business. But time is money, buddy, and I just want to get my questions answered. I don't have time to deal with all those details. Not only does an online survey save my users time, it also saves me time.

Head First: Well that seems fair, and who can pass up all those colorful charts and graphs?

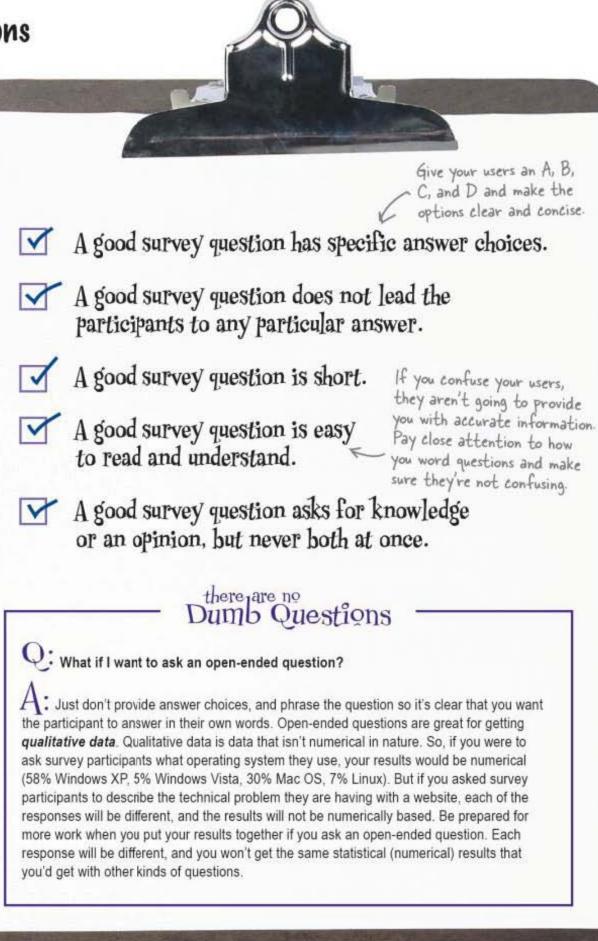
Online Survey: Not this guy. Believe me, going online was the best move of my life. We wouldn't be talking if it wasn't for the Web.

Head First: That's true! We're glad to have you. Thanks again for talking to us. I'm sure we'll be seeing you soon in some reader poll or career questionnaire.

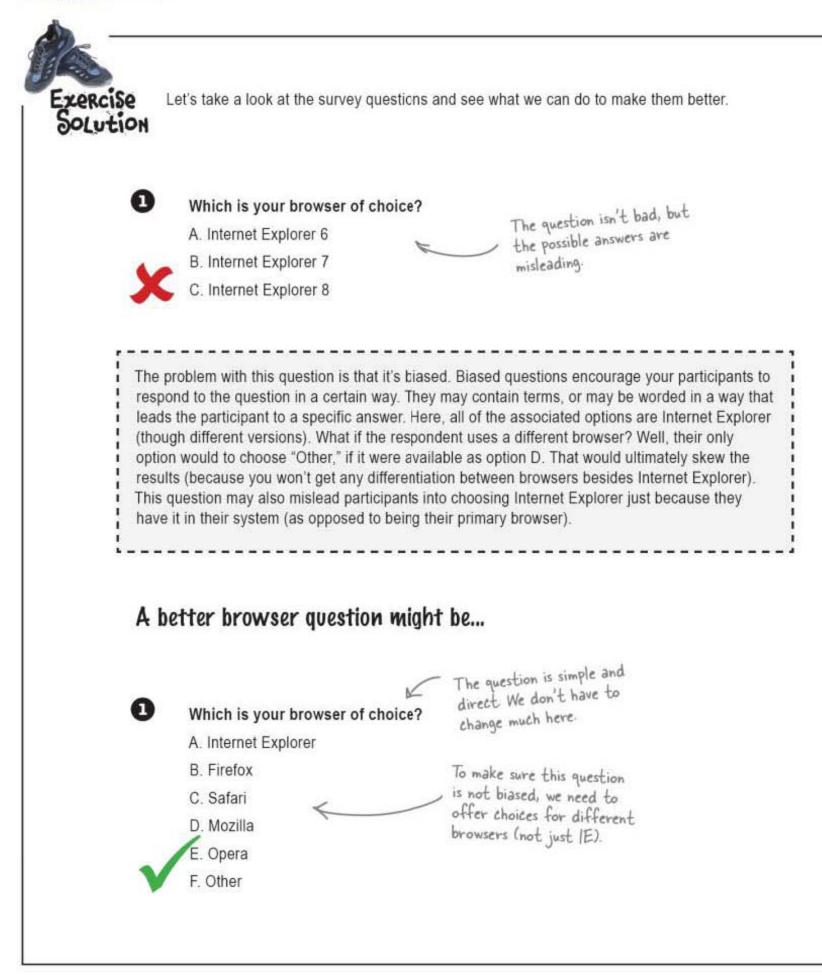
Online Survey: You bet, thanks for having me.

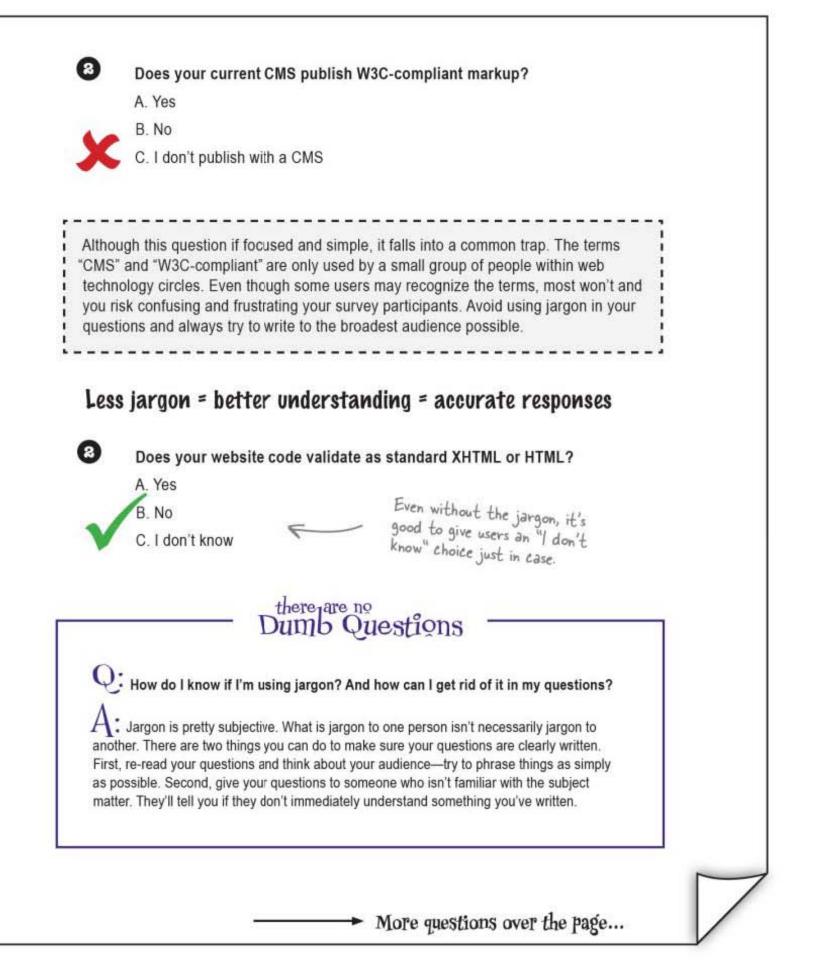
Ask the right questions in your surveys

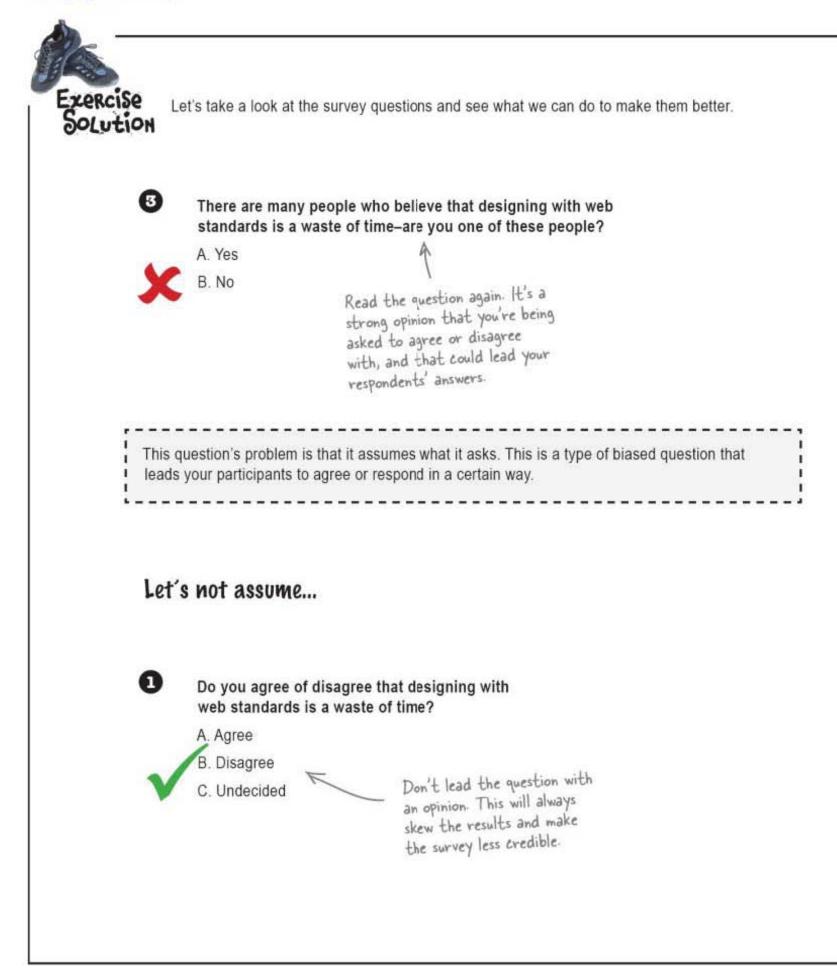
So you're going with a survey, but there's a problem. What questions are you going to ask, and how will you ask them? Oftentimes online surveys either ask the wrong questions or ask questions so that the data they get back from users taking the survey is unreliable. You really need to invest some time in crafting your survey's questions so that you get the best possible data you can. Let's take a look at what makes a good survey question.

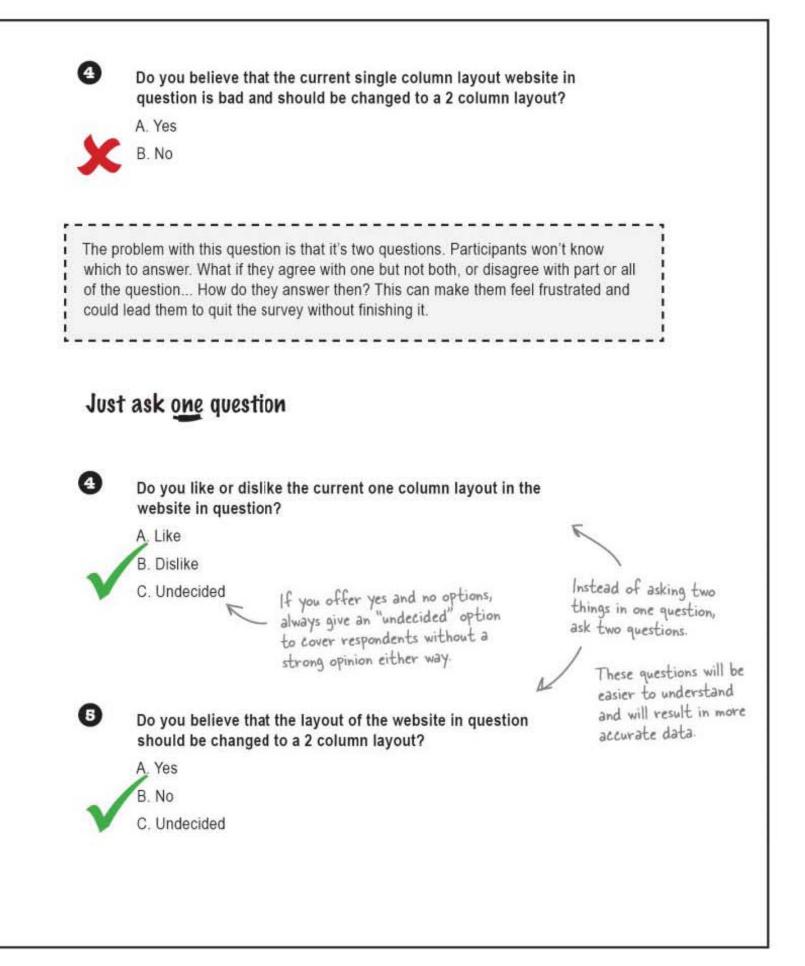


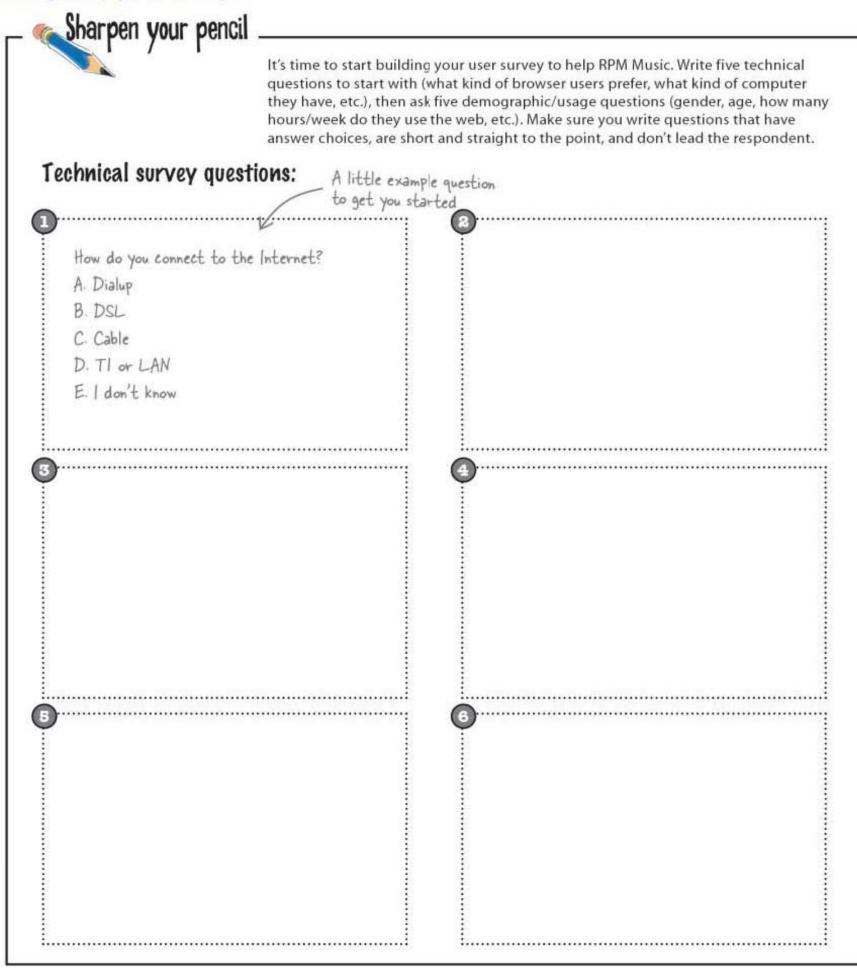
cise		good (and not so good) survey question, it's time some survey questions that could use a little work. ems with each question.
A. Intern	s your browser of choice? et Explorer 6	
	et Explorer 7 et Explorer 8	
W3C-co	ur current CMS publish mpliant markup?	
A. Yes B. No C. I don'	t publish with a CMS	
designir time—ar	e many people who believe that ig with web standards is a waste of re you one of these people?	
A. Yes B. No		
layout w	pelieve that the current single column rebsite in question is bad and should ged to a 2 column layout?	
A. Yes B. No	6	



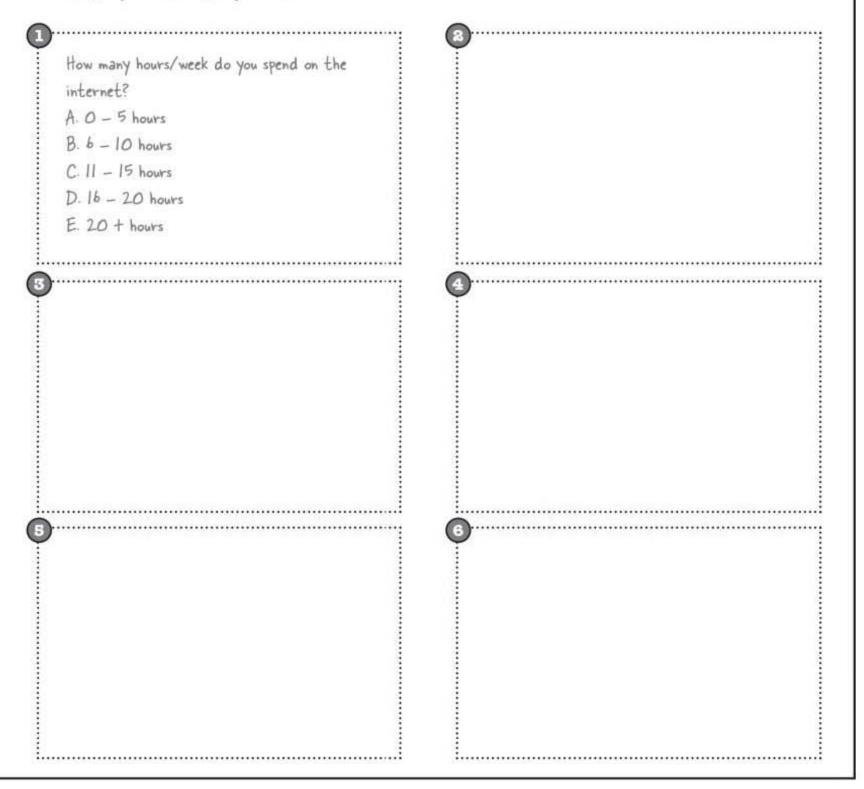


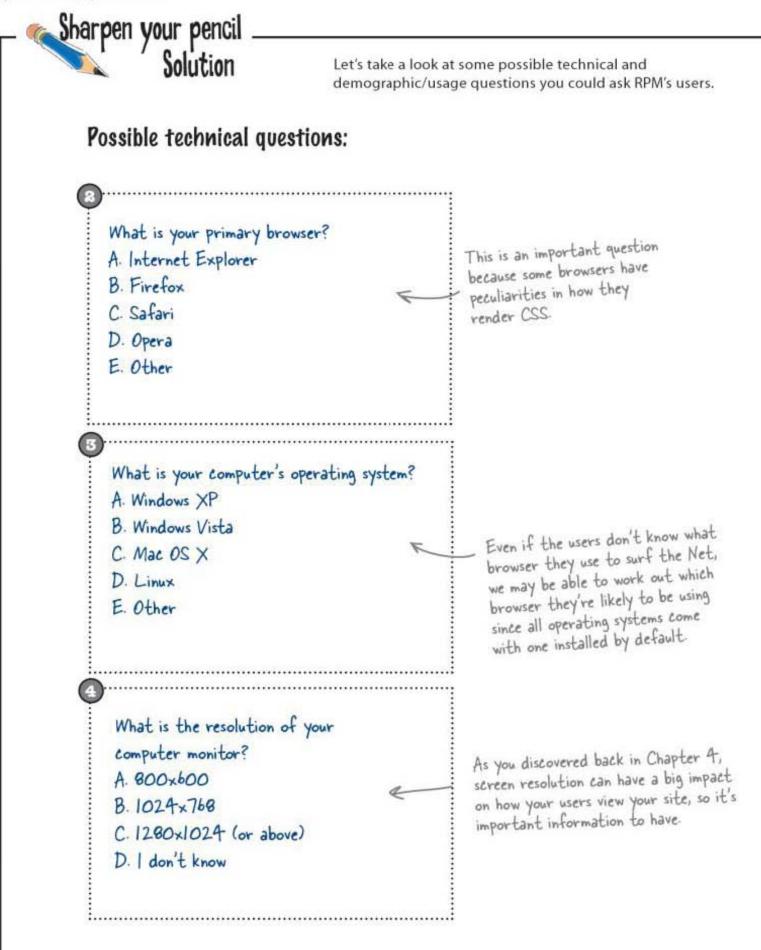


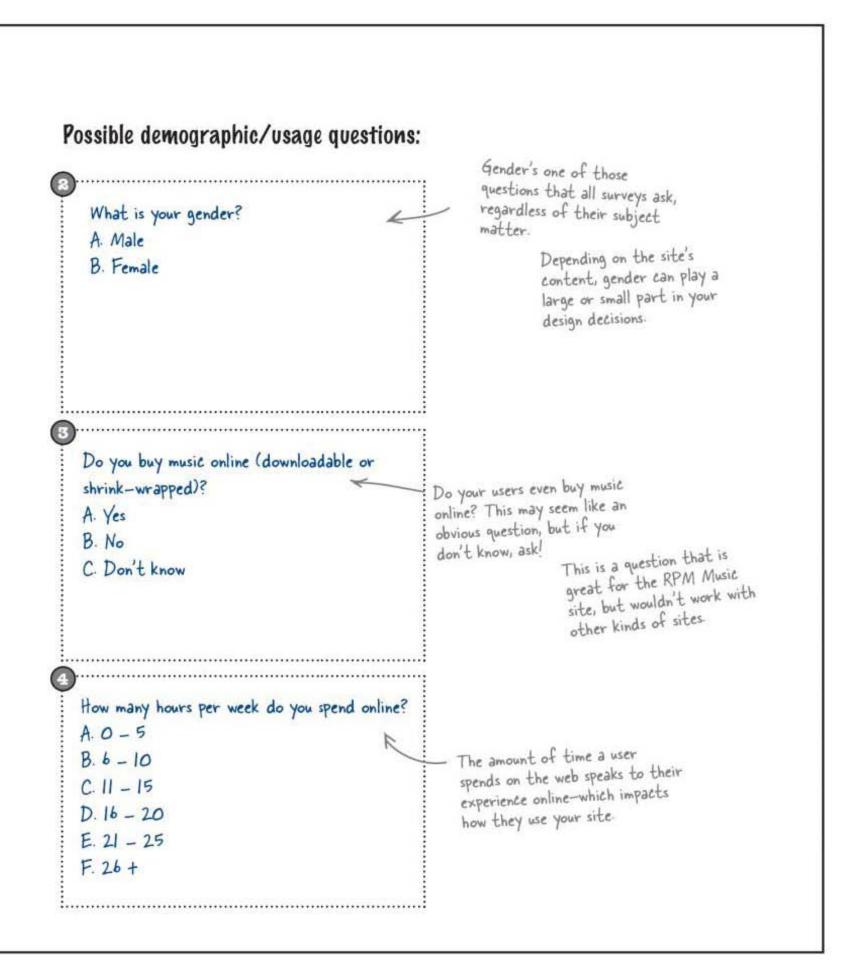




Demographic/usage questions:

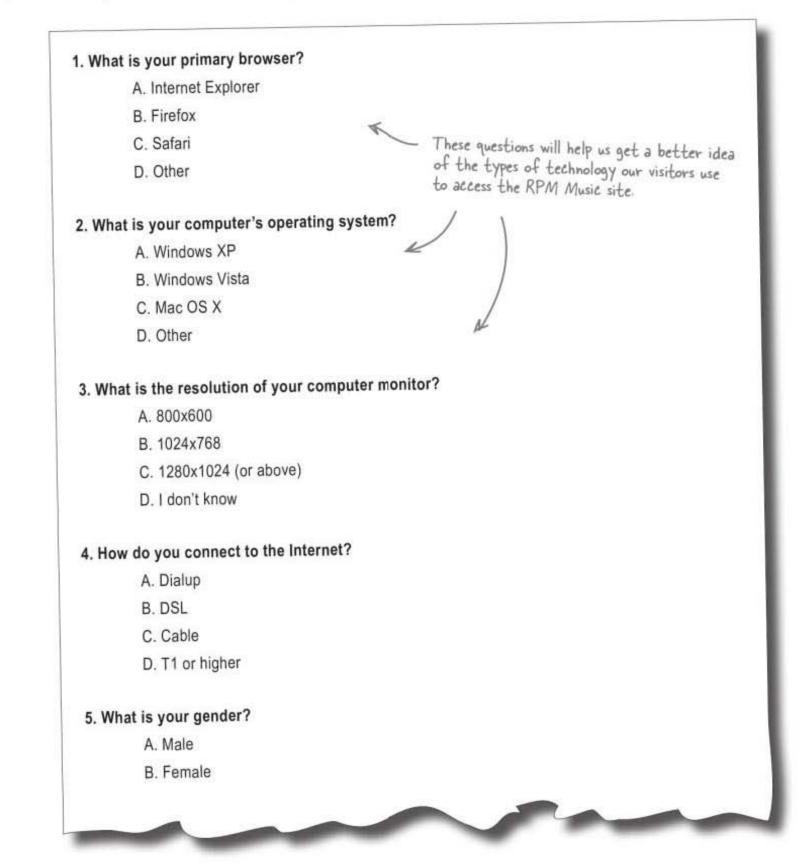


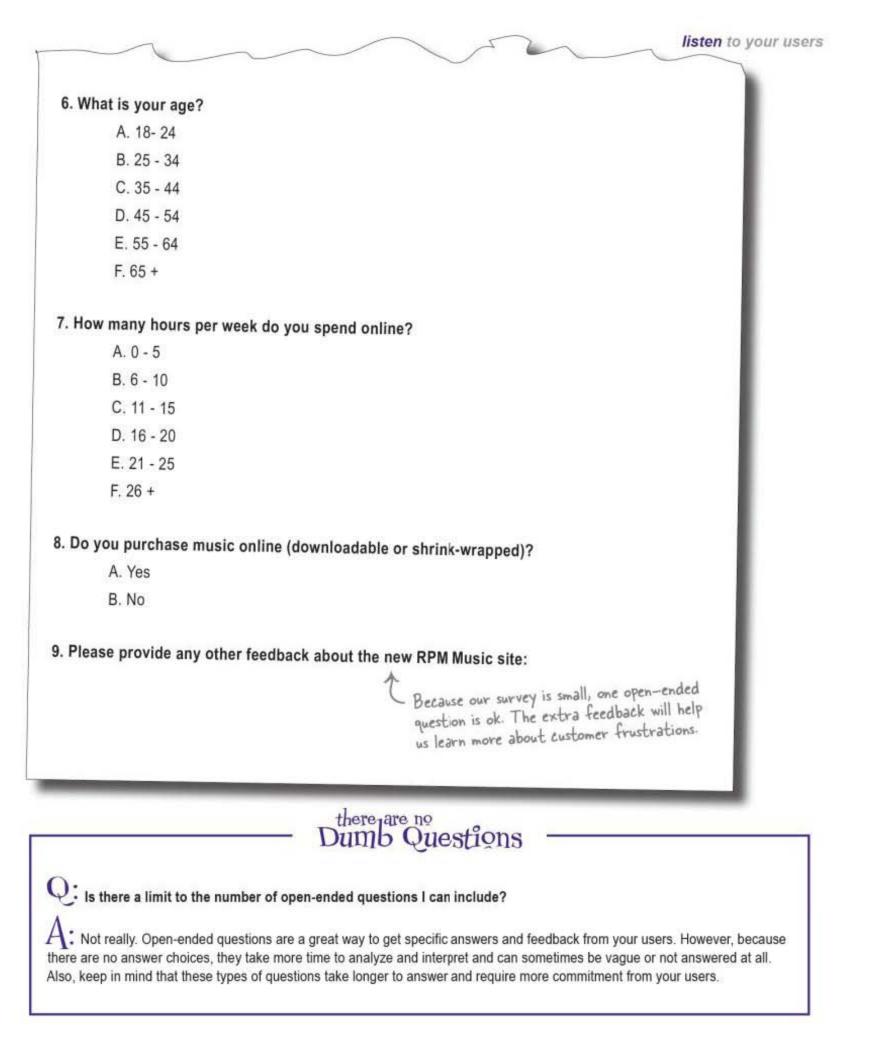




The final RPM Music user survey

Here's the completed survey ready to upload to the site (or use a survey service to conduct it for us).

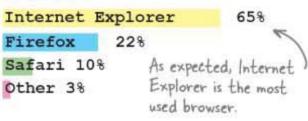




The results are in!

Let's take a look and see how our users responded to the RPM Music online survey.

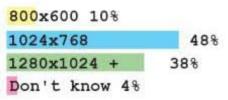
Browsers



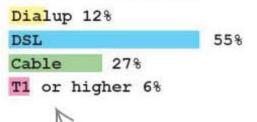
Operating Systems

Windows XP	75%
Windows Vista 10%	
Mac OS X 13%	
Other 2%	

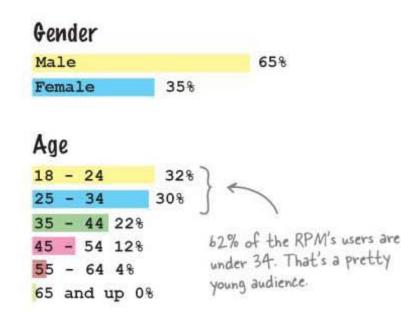
Screen Resolution



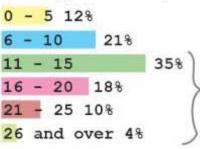
Internet Connection



The results in this column are also very typical for other sites and the Internet as a whole-

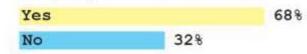


Hours per week spent online



Looks like the RPM audience spends a fair bit of time on the Net every week, too. That means they'll be more savvy about how websites work than if the results had skewed towards lower weekly hours.

Po you purchase music online?



Responses to the open-ended question:

I love the new site. It really reflects the vibe of the store. It would be really nice if I could buy digital tracks--ya know, like iTunes-instead of just getting the CD shipped to me.

I don't really use the site that much. I'd rather just come into the store. I really like talking with the people who work there as well as other customers. I guess the site is ok—it looks good—I just won't use it that much.

The new site looks all crazy now. Parts of the pages don't look like they're in the right place, and things don't make sense. Can you fix this? I want to keep buying stuff from you guys, but it's a little difficult with a messy site.

When I went to look at the site in Explorer, it looked all weird. The interface looks all out of whack... there are things that probably shouldn't be where they are.



Now that the results from the survey are in, start thinking about how all the information relates to each other. Finding patterns and connections can help shed some light on why RPM's users are having trouble with the site.

OK, looking at the results from the survey, it seems like our IE users are saying they're having the most trouble. Is there something wrong with the code?



Frank: Not necessarily. Browsers are the lens that you see the Web through–and not all browsers are created equally.

Jim: Oh, is one "brand" better than another? Is that why a lot of the RPM users seem to be using Internet Explorer?

Frank: No, actually. What I mean is that some of the browsers have peculiarities (in some cases, you might even call them bugs) that result in pages looking slightly different on one browser than they do on another.

Jim: Oh, I see. And since we want all of our users to have the same experience regardless of what browser they have, we need to take the peculiarities of each browser into account when we're designing the site...

Frank: Exactly. This is where Web Standards come in (sort of).

Jim: How so?

Frank: Web standards are part of the big cross-browser compatibility picture. Because the W3C works collaboratively with browser developers (among other people and companies), Web Standards are (mostly) baked right into the browsers themselves. So, when you design to Web Standards, you can be fairly confident that your site will look the same browser to browser. But some browsers have peculiarities—

Jim: Bugs.

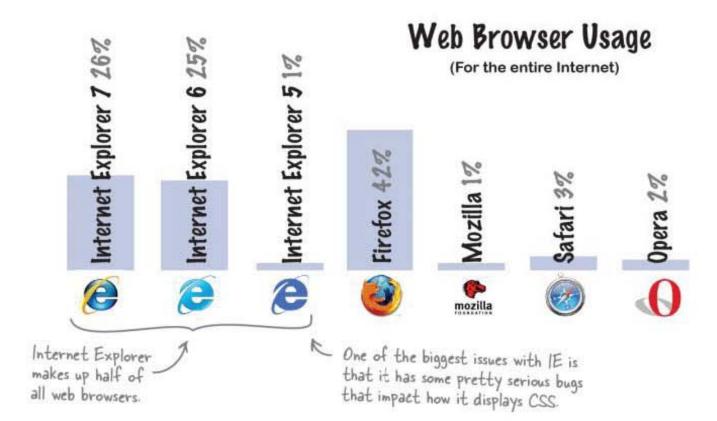
Frank: Ok, bugs—that won't display standards based XHTML and CSS the same way.

Jim: Oh. I see. So, what browser do we design for?

Frank: Well, first off, you should always use standards compliant CSS and XHTML. That'll solve a bunch of your problems right off. You should be intimately familiar with your users. What browsers do they use?

Jim: We know that now. Most of them use IE and Firefox.

Frank: Exactly. Design for those two browsers in particular. Finally, there are some code-based workarounds—you may have heard of them already, they're also known as CSS "hacks"—that will help you bypass cross browser computability problems (just like the ones the RPM Music site is experiencing). So we need to go look up some stats...



Dumb Questions

Q: What if I don't have an easy way to find out what browsers my visitors are using?

A: If you can't get a hold of reliable browser statistics for your site, you can always use generic stats.

Where can I get generic browser stats?

A: There are lots of sources out there. Probably the most reliable are the statistics compiled by the W3C (www. w3schools.com/browsers/browsers_stats.asp). The thing you have to realize is that no Web statistics are completely accurate, and they may not be reflective of your users. But, in the absence of any other kind of data, this is a start. Q: If I don't have a specific browser on my computer, how do I test to make sure the design looks right?

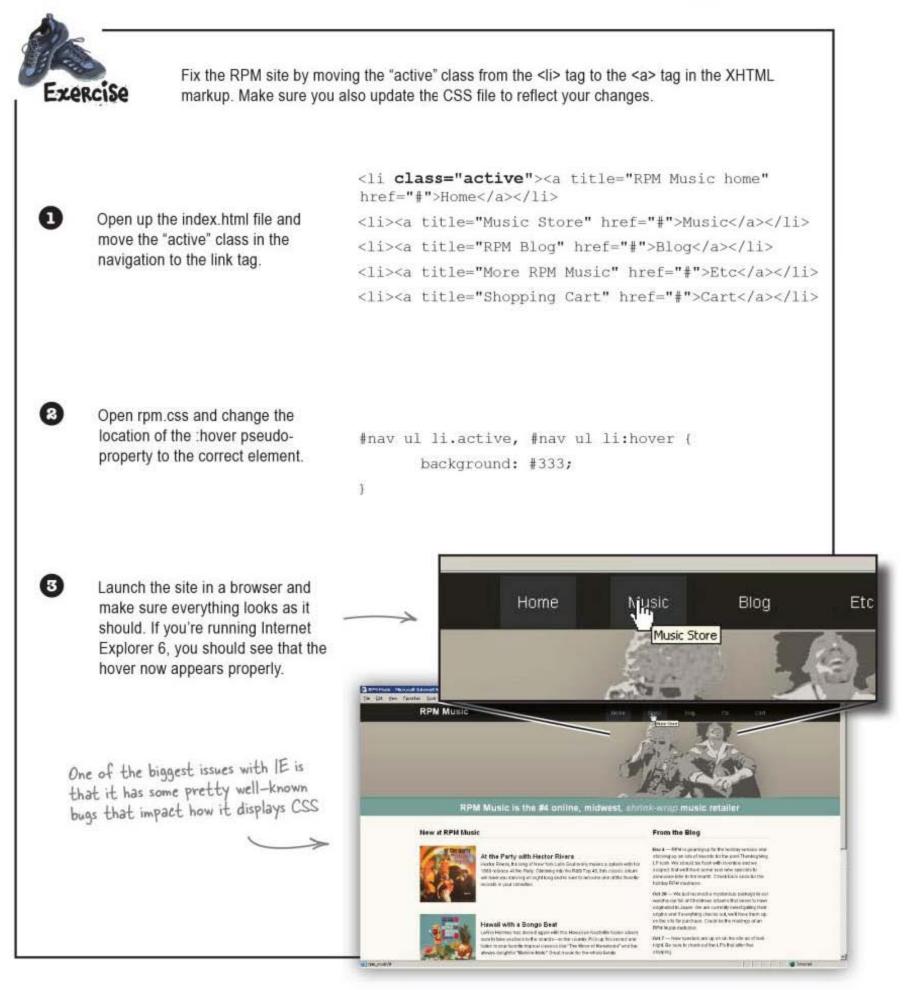
A: Good question. Not everyone has every browser on every operating system available for testing designs. The best thing to do is to check your site on all browsers available for your system. For example, if you're using Windows XP, check your design on Internet Explorer and Firefox (available as a free download). This will be a good start and probably get you 90% there. To check the rest of the browsers out there, use a service like Browsershots (http://browsershots.org), which will take screenshots of your site on every browser/operating system combination and then allow you to download the results.

Fix RPM's CSS bug by moving the hover property

IE 6 doesn't handle the :hover pseudo-property very well (actually, at all). We need to move our "active" class to the link tag instead of the list item and update our CSS file to apply the background to the correct element.

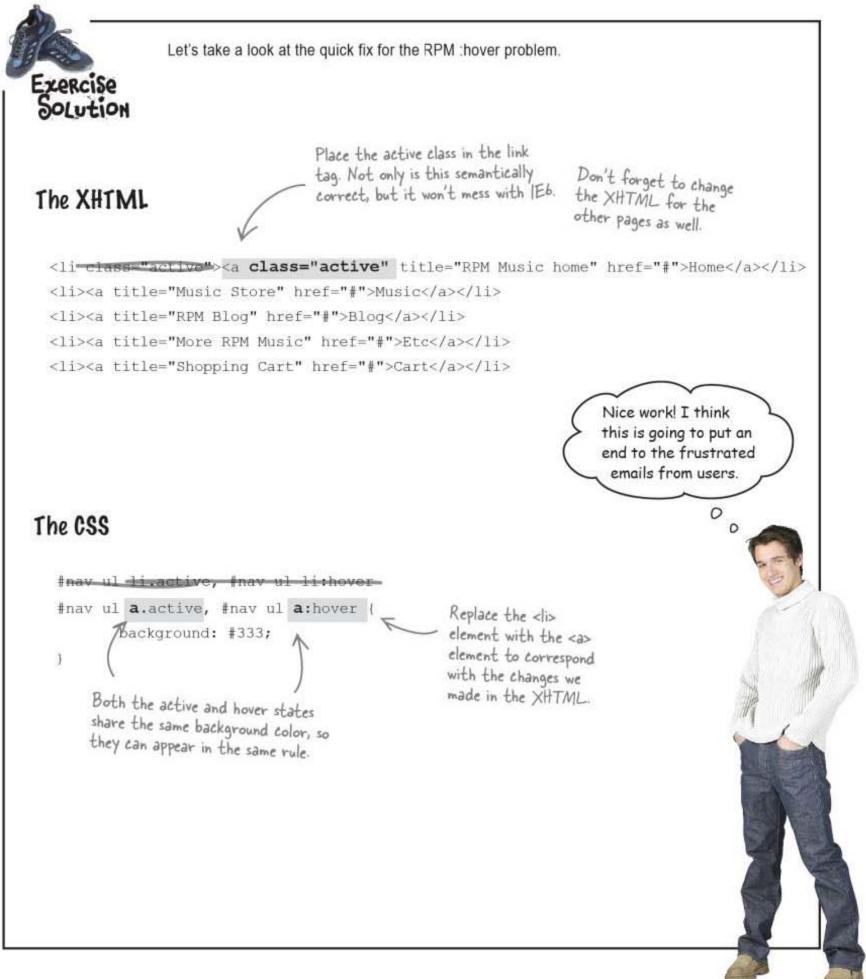
IE6 only supports : hover on link and anchor tags





you are here ►

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Wait, what about the emails from users who were having trouble finding info on the site... Surely you're not going to fix that with CSS, too?

User Testing: Let your users tell you how they use your site.

If you want to know how your audience is actually *using* your site, you need to do some **user testing**. User testing, also known as Usability Testing, lets you evaluate a website by testing it out on actual users.

You'll see where users go, which pages they spend the most time on, where they get confused, how they move from point A to point B on the site, and a lot more. User testing can identify known problems, locate unknown problems, and pinpoint usage patterns that could inform a redesign.

But you don't just have to watch users interacting with your site, you can give them tasks and evaluate how they accomplish each task. Always remember it's the site you're evaluating, not the user. This is important because you don't want to give your participants (who are taking time out of their schedule to help you) the perception that you're testing them.



You don't have to wait until you have a finished product to do usability testing - you can do it any time during the design process. I think we should have paid more attention to the people who are actually using the site. We need to go back and do some usability testing on the RPM site-and do it quickly.



Frank: Good idea, Joe. We really should have baked usability testing right into our design process from the get go, but there's no reason we can't test the site after the fact. Usability testing's a great way to figure it out a design problem because you're looking at how actual users are using your site.

Jim: Okay, I hate to rain on your parade, but testing sounds expensive...

Joe: I have a friend who works in professional user testing. It's big business, and her company doesn't just do websites—they user test all kinds of products. But professional companies like that cost tens, even hundreds, of thousands of dollars.

Jim: See that's what I was afraid of. Why so much?

Joe: They often have dedicated usability labs with computers that capture every keystroke and mouse movement, microphones that record every user comment, cameras that record the entire test, and even eye tracking devices that record where the user's eye was focused at any given time. Plus, they've also got a horde of experts who can process all of the data from the tests and provide comprehensive reports and recommendations.

Frank: That's a bit out of our budget. Any chance your friend shared a few of her secrets, Joe?!

Joe: Actually, she didn't need to. Just because you don't have a fancy lab doesn't mean you can't do useful usability testing. There are lots of budget-minded techniques we can use to test how real people use the RPM website.

Frank: So she did share some secrets after all?

Joe: Nope. All you really need to do your own usability testing is a solid plan, a computer, a few people to run the test and some willing participants. There's even been some pretty impressive, and inexpensive, software—like Silverback, http://silverbackapp.com that's been coming onto the market recently. These applications can help you do some pretty sophisticated user testing without a crazy expensive lab.

Frank: Great, then let's get to it. RPM's users are waiting ...

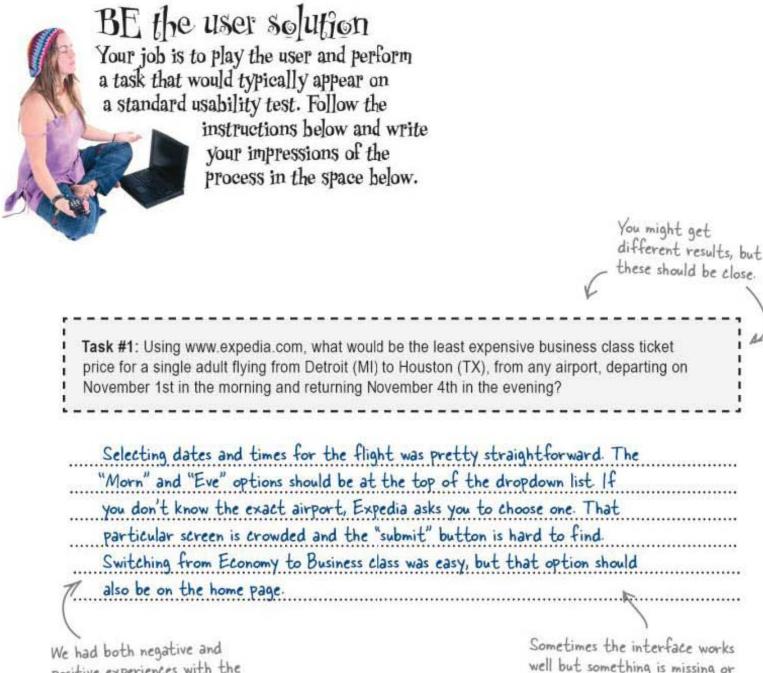


Task #1: Using www.expedia.com, what would be the least expensive busin price for a single adult flying from Detroit (MI) to Houston (TX), from any air November 1st in the morning and returning November 4th in the evening?	
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Don't forget to write down the prices of the flights.

In a real usability test, you wouldn't have to write down your thoughts or findings. Instead, you would just "think out loud," and someone else would write down or record what you said.



positive experiences with the site. Picking the flights was straightforward, but option switching became a problem.

well but something is missing or feels out of order.

The building blocks of budget usability testing

So, what exactly do you need to do a decent usability test on a budget? Here are the basics:



Plan: You've got to have a plan. What are your goals (what do you want to accomplish with the usability test)? How are you going to accomplish those goals? What are your tasks going to be? Who are you going to recruit to be your participants? If you don't have a solid plan, your usability test will be a mess from the word go.



Moderator Script: A moderator script is basically the script for the entire usability test. How it will run, what the tasks are, and what needs to be told to the participants.

Moderator: The moderator is the person who runs the usability test. They talk to the participant, tell them what they need to do, and give them clarification if they need it.

Note Taker: The note taker is the person who records what the user does, what they say, etc. They basically collect the data that will be analyzed after the test is finished.

Computer: You'll need a computer with an internet connection and necessary software for the test (browsers, plugins, etc.).

Space: You need somewhere to run the test. If you don't have a lab, this could be your office, a quite coffee shop or even the corner of a local library.

Participants: You need someone to actually participate in the test. The more people the better. These participants should be drawn from your audience. It won't do you any good to select participants who would never use your site. You also need to compensate participants give them something for their time. This may be cash (\$50 is not uncommon for an approximately 3 hour session) or a gift certificate from somewhere (everyone loves Amazon).



Use a moderator script to organize the test

If you want to get the best results for your user test, you need to make sure you're well organized and that the test runs smoothly. That means knowing the exact sequence in which everything happens, what you're going to say to the participants, and what tasks you're going to have them perform—and that's what's in a moderator script.

Schedule

30 minutes - Instructions and pre-study questions

1 hour - Usability test and task assignments

15 min - Post-study questions and participant Q&A

A schedule will keep you on track and make sure the test runs as smoothly as possible.

When you do the usability test, you'll actually read this portion to your participants

Moderator Scripts dissected

Study Overview

Thank you for agreeing to participate in our study. We're very interested in your feedback about booking air travel online. We're trying to understand how people interact with multiple air travel websites during typical scenarios.

In this session, we'll first discuss why and how you use the Internet in your daily life and how you might use air travel websites in particular. Then I'll ask you to complete one task scenario on two air travel websites, dealing with looking up airfare prices for a specific destination.

As you're completing the scenarios, please speak aloud to let me know what you are doing. I'll also ask you to point out anything you encounter that's unexpected or surprising. When you've completed the scenarios, I'll ask you a series of questions about the websites and how you interacted with them. Then, I'll ask you some questions after you have filled out a brief feedback questionnaire.

Remember that this is an evaluation of the website's ease of use and not of your individual performance. Do you have any questions at this point?

Background Interview

A background interview provides information about the participant's general internet usage as well as their experience with the kind of site that's being tested. So, questions would include:

• What time(s) of day do you tend to use the Internet?

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- · What types of work or school-related activities do you perform using the Internet?
- What are the main issues you have when you visit websites in general?
- What is a scenario in which you might use a website like the one being tested?

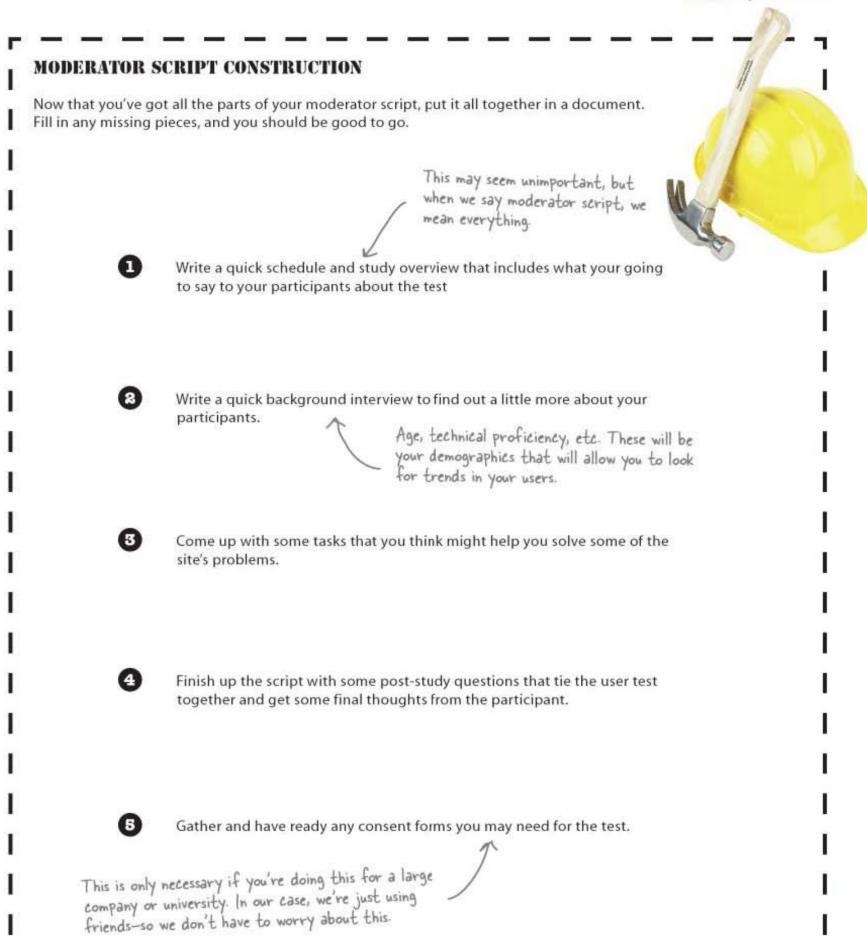
Do the background interview with your participants before you run the test.

Task Instructions

These are the tasks that the user will perform, which you will observe them complete and record what they do. The tasks you come up with are the "test" portion of a usability test.

	Think of some user tasks for the RPM Music site that a typical user might go through. Write your tasks below.
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MODERATOR SCRIPT CONSTRUCTION SOLUTION

Let's take a look at what your RPM Music usability test moderator script might look like.

SCHEDULE

30 minutes - Instructions and pre-study questions I hour - Usability test and task assignments 15 min - Post-study questions and participant Q&A

Make sure you're staying on track and not wasting your friends time.

STUDY OVERVIEW

Thank you for agreeing to participate in our study. We are very interested in obtaining feedback about the RPM Music website and online store.

In this user test you will be asked to complete a series of tasks on the RPM Music website that will help us evaluate the efficiency and usability of the site. After the task portion of the test, you will be asked to complete a short survey about the site and your experience using the online store. While taking the test, please be sure to "think out loud" so that our moderators can record your reactions to the tasks. Finally, the moderators will not be able to assist or speak with you once the test starts. Do you have any questions at this time?

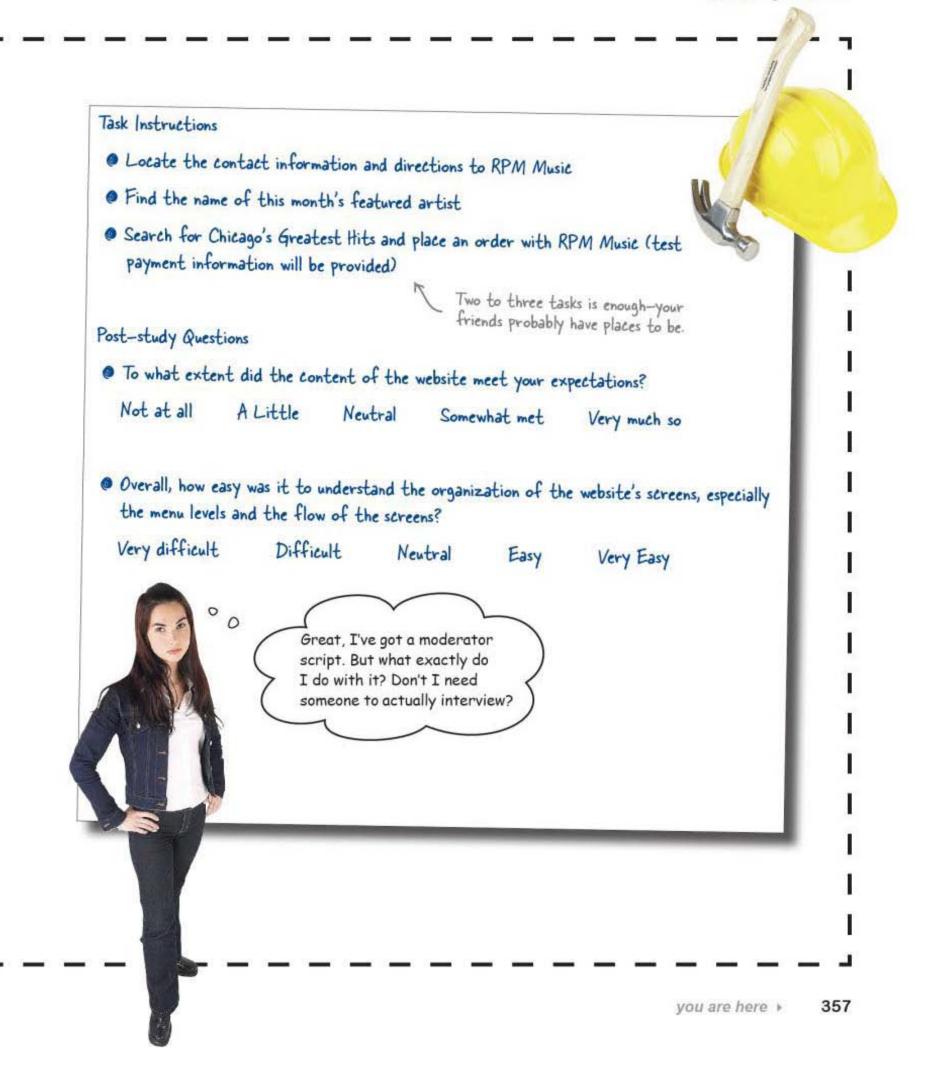
BACKGROUND INTERVIEW

Use this script so you - don't forget to tell your participant something.

A background interview provides information about the participant's general Internet usage, as well as their experience with the kind of site that is being tested. So, questions would include:

- What time(s) of day do you tend to use the Internet?
- What types of work or school-related activities do you perform using the Internet?
- What are the main issues you have when you visit websites in general?
- What is a scenario in which you might use a website like the one being tested?

Basic technical information



Remember the Expedia task you did earlier in the chapter? Now it's your turn to have a friend or family member perform the task, so you can get a taste of what its like to be the moderator. Make sure you have them speak out loud and record your observations below. Task #1: Using www.expedia.com, what would be the least expensive business class ticket price for a single adult flying from Detroit (MI) to Houston (TX), from any airport, departing on November 1st in the morning and returning November 4th in the evening? _ _ _ _ _ _ _ _ _ _ ~~~~~~ Wait a second, should we really be using our friends? What if they aren't part of the target audience? 0

Friends and family can be a problem

When you're doing usability testing on a small budget, you're probably thinking that it would be easy to grab some friends or family and have them do the test. And you might also be thinking that you could persuade them to skip the compensation (because they are friends and family, y'know). The problem is that when you use friends and family for a usability test, you introduce bias into your study.

Because they're close to you, they might not be willing (either consciously or unconsciously) to give you unbiased feedback. Also, when you're choosing your participants, you need to choose people who would actually use the site. It's more than likely that the people close to you aren't part of the intended audience of the site, and, therefore, if you choose them, you may not get the results you need.

> Probably not a good idea to use your mom. She'll be too nice.

bumb Questions

Q: How many participants do I need for a user test?

A: The more participants you get, the better (and more representative) your results will be. If you only have one or two participants, you're really only testing it on themand the results won't be representative of a large population, but their own opinions.

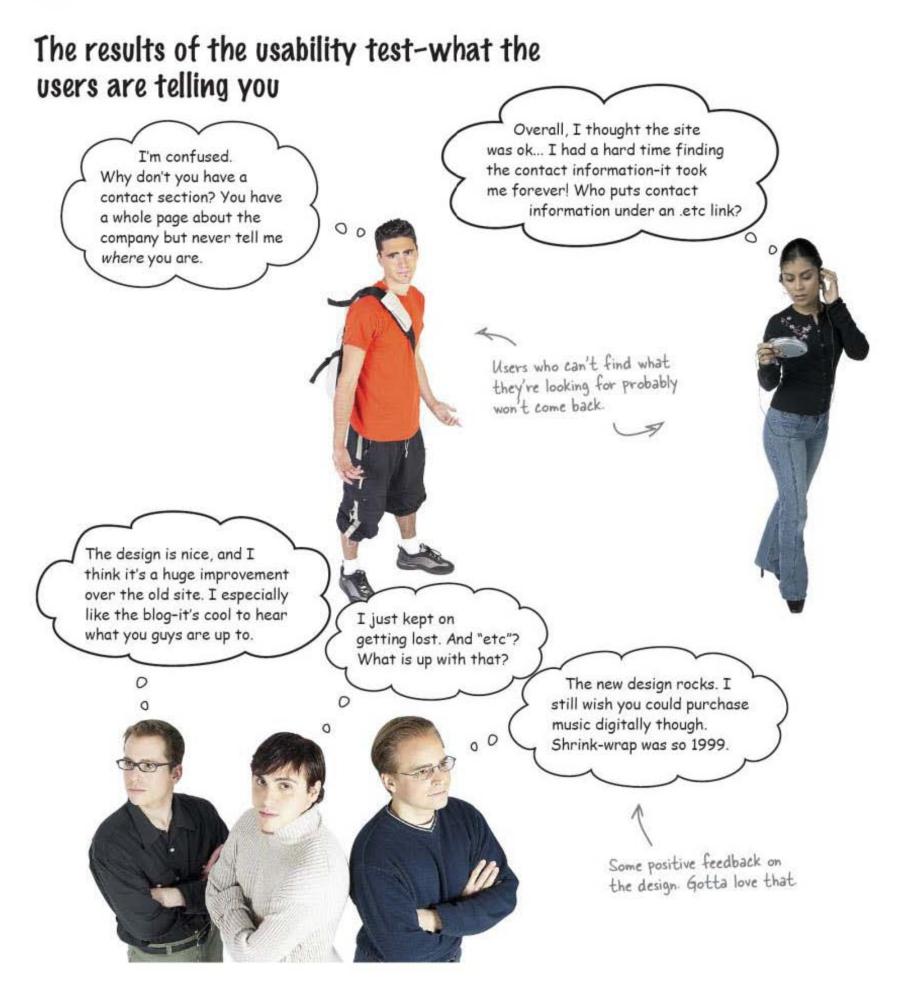
No, really, how many participants do I need?

A: There's no real right answer for that question. The more the better. But, generally speaking, you should shoot for a minimum of 8-10.

What if I can't recruit that many participants? Should I just avoid the user test entirely?

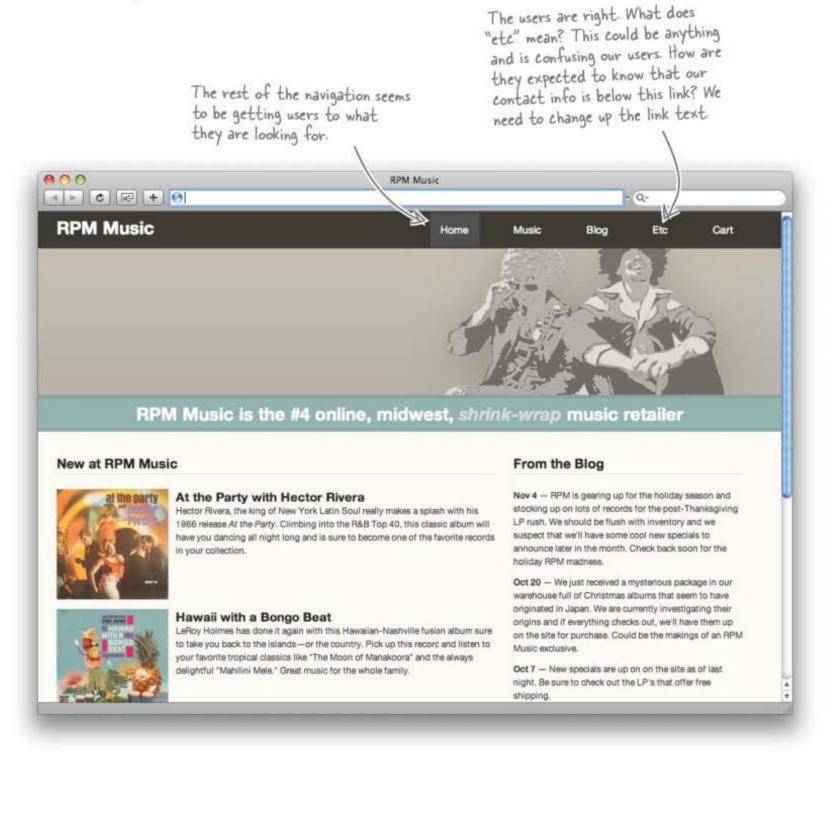
A: No, even a usability test with a small number of people (or even one) is beneficial.





A simple problem...

Looks like our users are a little confused by the navigation menu. They're having trouble finding the contact information because it's buried below a nav item that's incredibly confusing. This should be an easy fix...





One simple fix later...

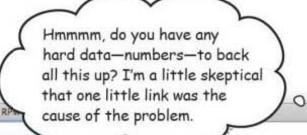
<u1> Home Music Blog About Cart Much better. Just tell them what they can expect when they click the link. 000 RPM Music - Q-**RPM Music** Home About Cart Music Blog RPM Music is the #4 online, r I can't believe how incredibly easy that fix was. And we found New at RPM Music the problem by conducting the usability tests and listening to the At the Party with Hector River ason and Onksgiving and w Hector Rivera, the king of New York Latin Soul r users. More power to the users! 1966 release At the Party. Climbing into the R&B To w specials to have you dancing all night long and is sure to becc . Check back soon for th in your collection. Oct 20 - We just received a mysterious package in our warehouse full of Christmas albums that seem to ha originated in Japan. We are currently investigating Hawaii with a Bongo Beat origins and if everything checks out, we'll have LeRoy Holmes has done it again with this Hawaiian-Nashville fusion album sure on the site for purchase. Could be the m to take you back to the islands-or the country. Pick up this record and listen to Music exclusive. your favorite tropical classics like "The Moon of Manakoora" and the always delightful "Mahilini Mele." Great music for the whole family. Oct 7 - New specia night. Be sure to ch shipping.

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Cart

About



Blog

Music

RPM Music is the #4 online, midwest, shrink-wrap music retailer

Home

New at RPM Music

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RPM Music



At the Party with Hector Rivera

Hector Rivera, the king of New York Latin Soul really makes a splash with his 1966 release At the Party. Climbing into the R&B Top 40, this classic album will have you dancing all night long and is sure to become one of the favorite records in your collection.



Hawaii with a Bongo Beat

LeRoy Holmes has done it again with this Hawaiian-Nashville fusion album sure to take you back to the islands—or the country. Pick up this record and listen to your favorite tropical classics like "The Moon of Manakoora" and the always delightful "Mahilini Mele." Great music for the whole family.

From the Blog

Nov 4 — RPM is gearing up for the holiday season and stocking up on lots of records for the post-Thanksgivin LP rush. We should be flush with inventory and we suspect that we'll have some cool new specials to announce later in the month. Check back soon for the holiday RPM madness.

Oct 20 — We just received a mysterious package i warehouse full of Christmas albums that seem to originated in Japan. We are currently investigating origins and if everything checks out, we'll have memory on the site for purchase. Could be the makings of an RPM Music exclusive.

Oct 7 — New specials are up on on the site as of last night. Be sure to check out the LP's that offer free shipping.

Site stats give your users (another) voice

Site statistics are a handy way to find out more about what your users are doing—which pages they're hitting (and how often), which are their favorite pages, where they're coming from (referrers), and what searches they might be running while they're on the site.

You can get at your site statistics by using an application (either on your server or on another server) that captures, measures, and reports all sorts of information on your site's traffic. This process is often also called website analytics. Whatever name you use, website statistics or analytics, it's a great way to get information about how your site's being used by your audience. Let's see how RPM's stats are looking.

Website analytics tools

Mint

Mint (http://haveamint.com/) is a cool little application created by the legendary web designer/developer Shaun Inman (www.shauninman.com/) that sits on your web server and captures traffic data—which is then displayed in Mint's customizable dashboard. The great thing about Mint is it can be extended by plugins called Peppers. These Pepper plugins and widgets (which are available at the Pepper Mill http://haveamint.com/peppermill/) are developed by all sorts of people all over the

web, and will work seamlessly with your Mint install.



Google Analytics

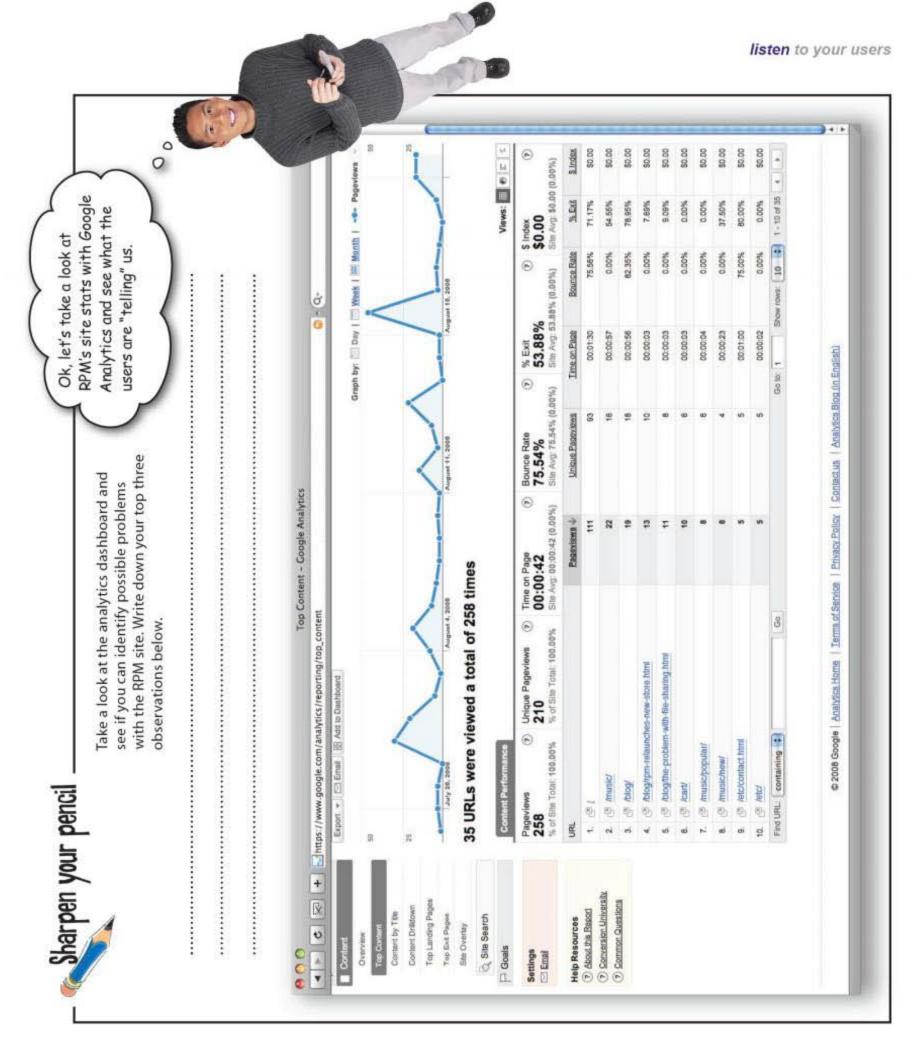
Google Analytics (http://analytics.google.com) is a free service offered by Google that generates detailed statistics about the visitors to a website. Although Google Analytics can provide detailed information about page views, referrers, browser versions, etc., it's geared more towards marketers than designers or developers.

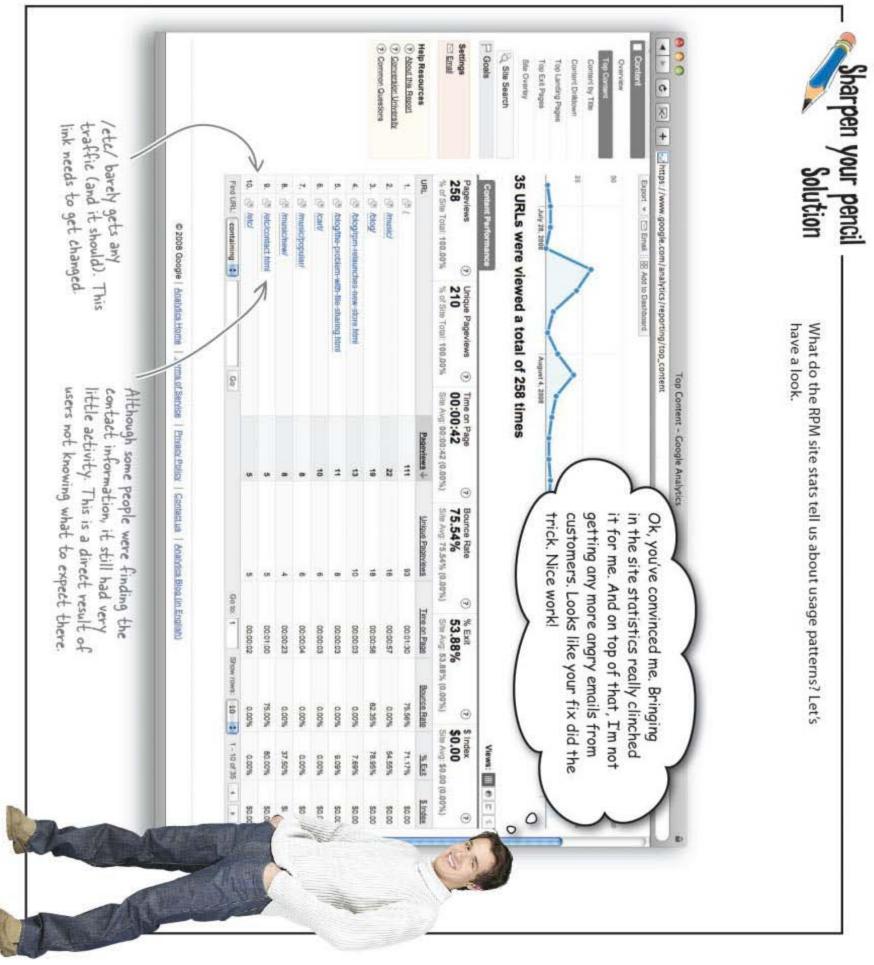
Google Analytics works based on a system called "page tagging," in which a little bit of Javascript is inserted into every page on the site. Every time that page loads,

the JavaScript collects anonymous visitor data, sends it back to the Google mothership for processing, and then displays it in a handy dandy dashboard format (at the Google Analytics site).



Google





the data is convincing

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Your Web Pesign Toolbox

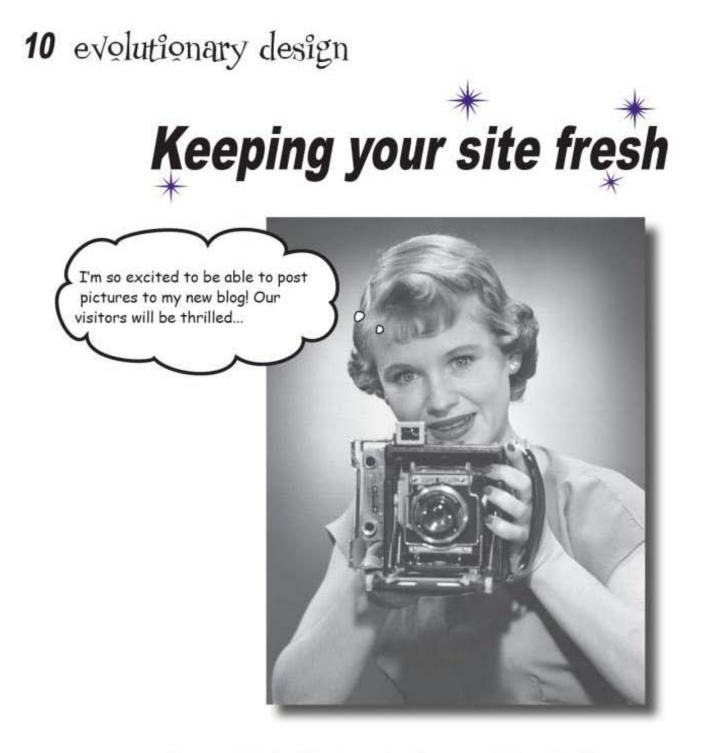
You've got Chapter 9 under your belt, and now you've added usability testing to your tool box. Usable sites down; next up: evolving your sites to the next level.



BULLET POINTS

- Surveys are great for collecting information on a broad range of topics from a large number of people.
- Survey questions should be unbiased and uncomplicated.
- Open-ended questions are designed to provide qualitative data, but they can be complicated to deal with because each response will be different, and you won't be given the same kind of nice, statistical (numerical) results that you'd get with other kinds of questions.
- Some browsers have peculiarities that make a website look slightly different from how you designed it.
- If you design with web standards, you'll avoid most cross browser compatibility problems.
- Usability testing is designed to evaluate how real people use your site.

- Usability testing can be done cheaply.
- A usability test is task based—you ask your participants to perform a task—and you evaluate how they accomplish it.
- A moderator script is the blueprint for a usability test.
- Recruiting friends and family to do your usability test can introduce bias into your study and impact the reliability of your results.
- Site statistics (site analytics) provide usage data about your website, such as page views, referrers, popular pages, and browsers.



So, you've built a bunch of awesome websites.

Now it's time to kick back, relax, and watch the visitor numbers grow, right? Whoa, not so fast. *The web never stops evolving*—and your site needs to keep up. You can **add new features**, **tweak the design**, or even **do a complete redesign**. An ever-changing site reflects your growing skills—which means *your site is always your best PR tool*.

Your portfolio so far...

That's a good-looking collection of sites you've got there. Take a moment to look over them and feel proud of yourself. You've covered a lot of ground since chapter 1.





Keeping your site and content fresh keeps your users coming back

If you're a web designer (either individually or as part of a larger studio), your site is your own best PR. It doesn't just showcase your project work, but it also highlights your skills, aesthetic, and design sensibilities. So you need to make sure that your site always represents your best and most progressive work.

This also means that you can't let your site linger with the same content (and features) for too long. A site that remains unchanged sends a message to your users. It says "Hey, I haven't changed forever; there must be something wrong with the company." Fresh content will sent a positive message to your users and keep them coming back.

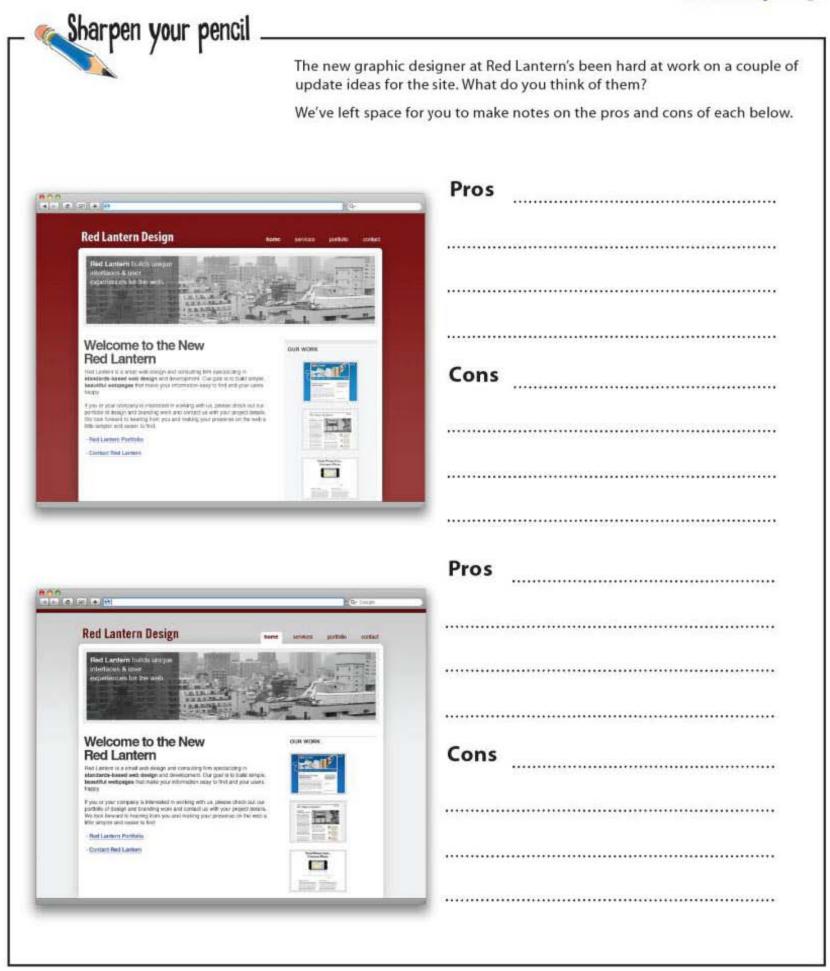
Revisting Red Lantern

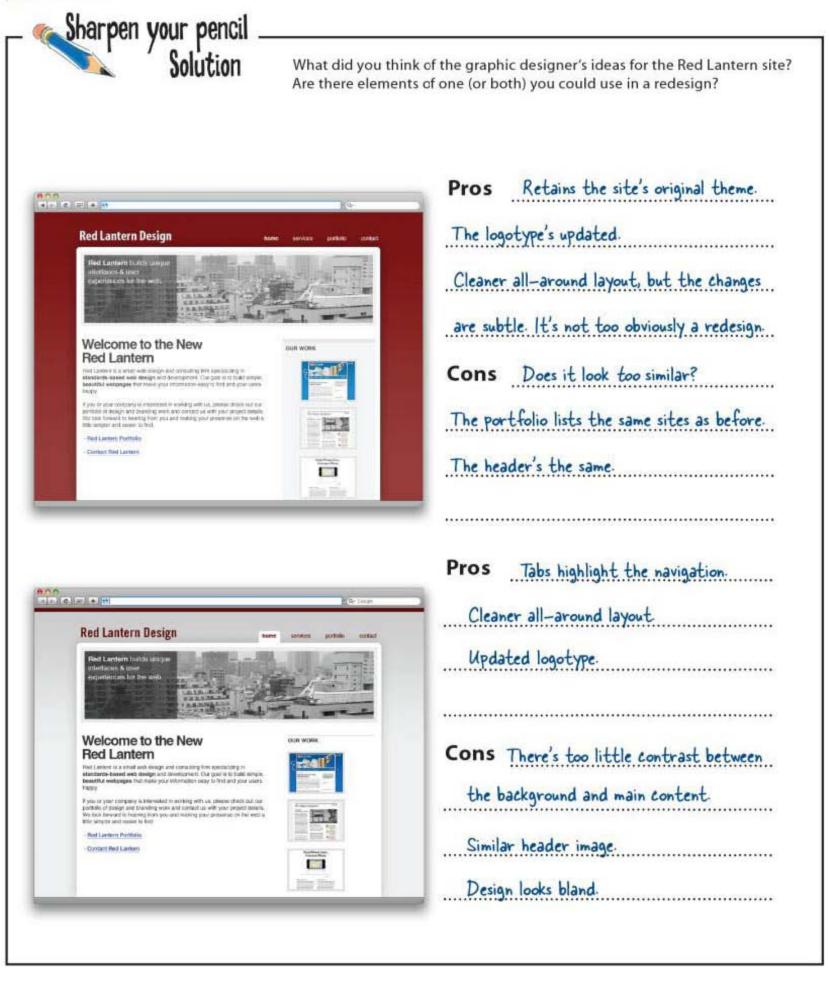
Red Lantern's doing great. Working with Jane, you've got some truly impressive projects under your belt, and you've helped establish Red Lantern's reputation for being an innovative and cutting edge design studio. But to keep that reputation intact, you need to make sure the Red Lantern site's up-to-date, too. Now's the perfect time go back and revamp.

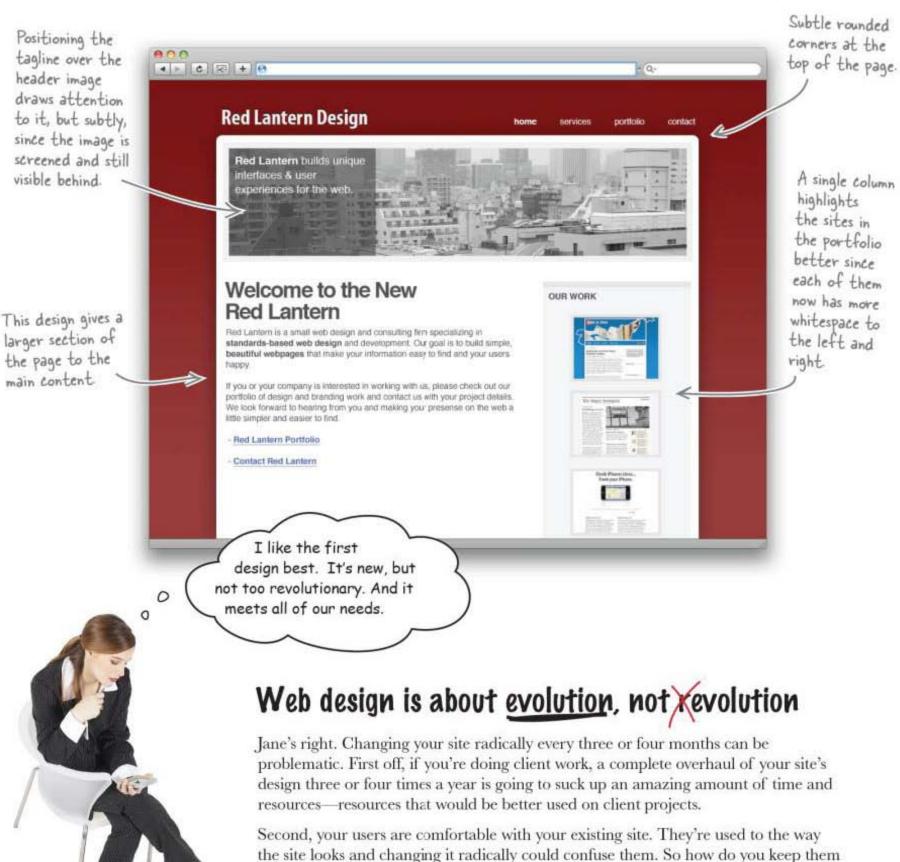
Red Lantern To-Do List...

- Freshen up the look and feel of the site.
- Make the site more cross-browser compatible.
- Get better user feedback.
- Communicate better with users.





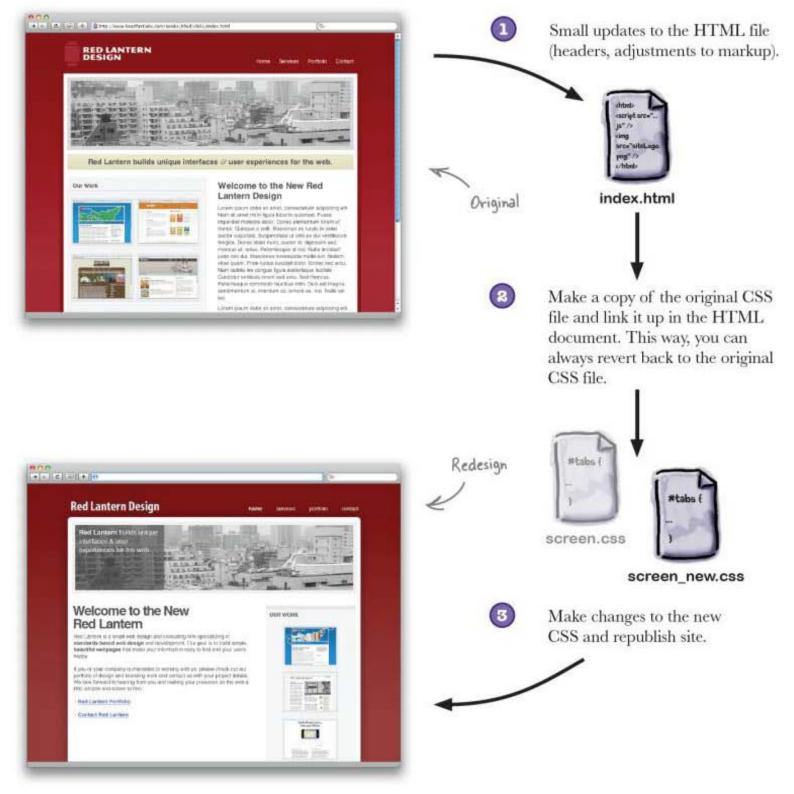


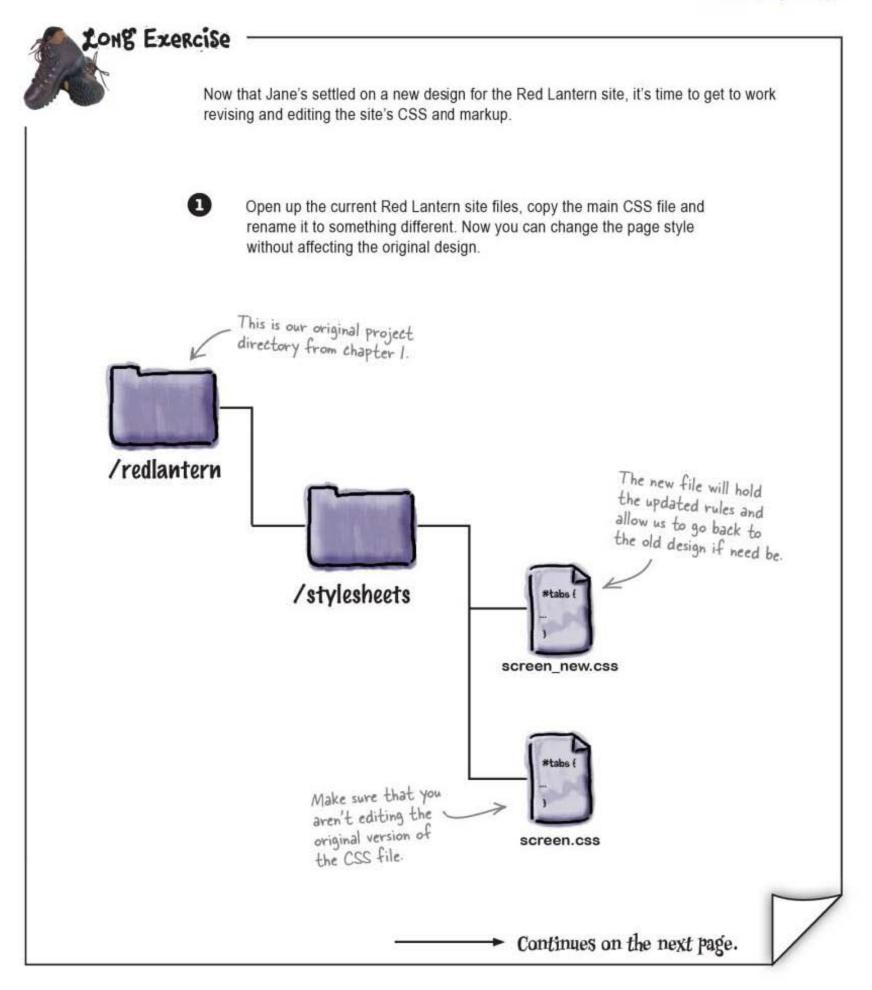


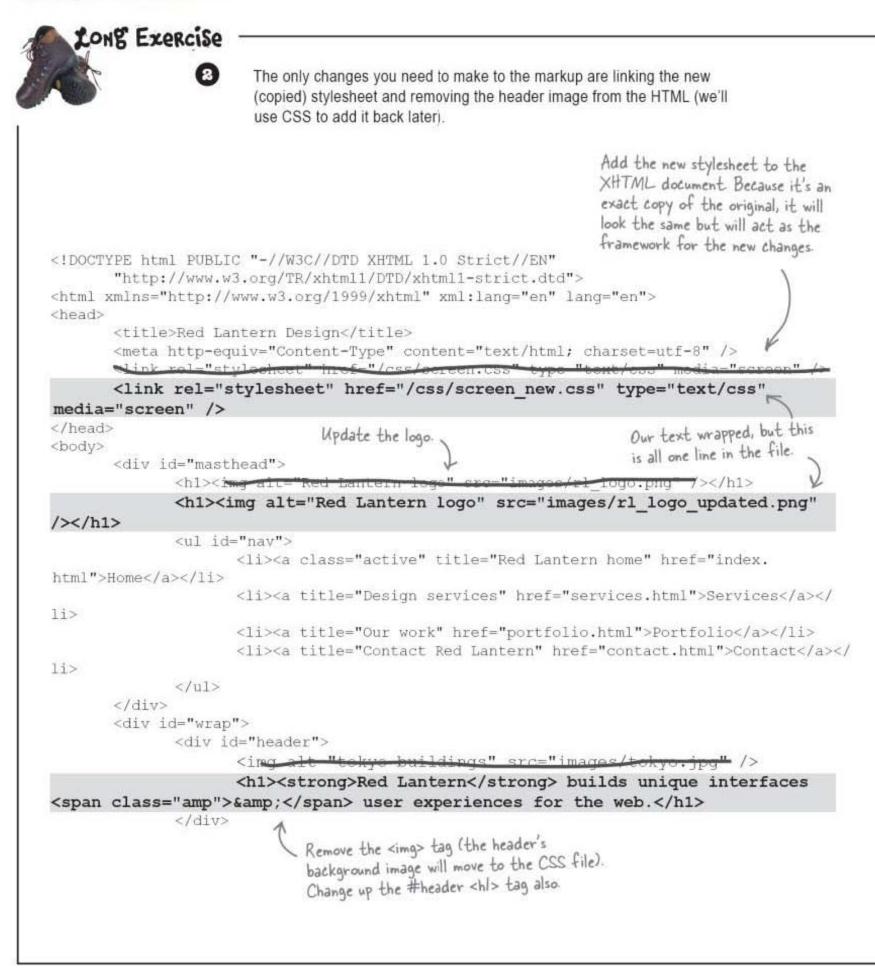
the site looks and changing it radically could confuse them. So how do you keep them interested and coming back for more? You can take an *evolutionary design approach* to updating your site, incrementally changing the design aesthetic and features. This way, your site will still feel familiar to your users, but it will also be new and fresh.

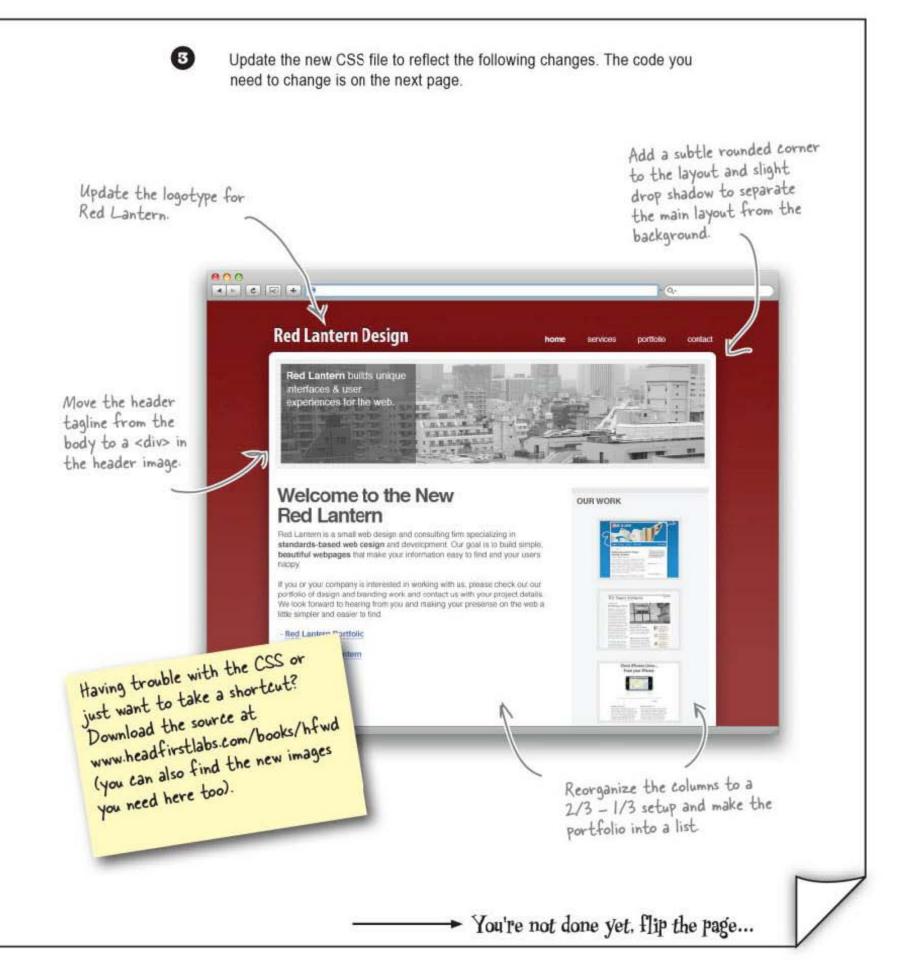
Use CSS to evolve your site's design

The great thing about designing with Web Standards is that when you want to change up your site's design, all you need to do is edit the CSS. You don't have to worry about your markup at all (which is one of the benefits of designing to Web Standards—separation of content and style).

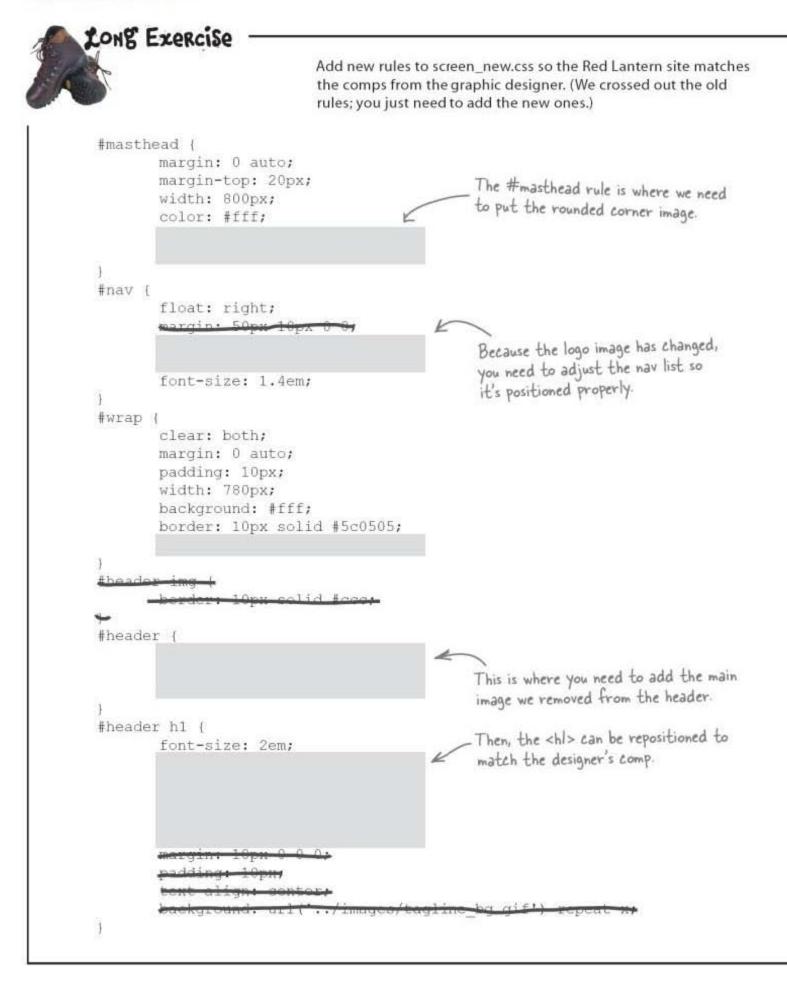


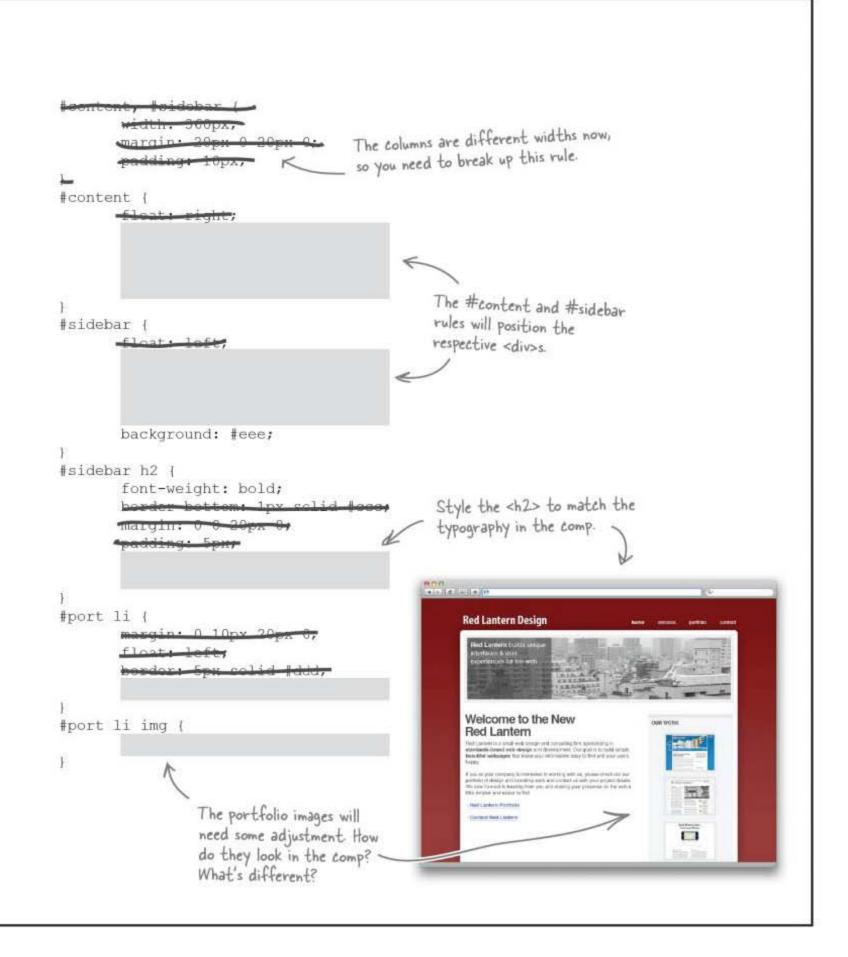


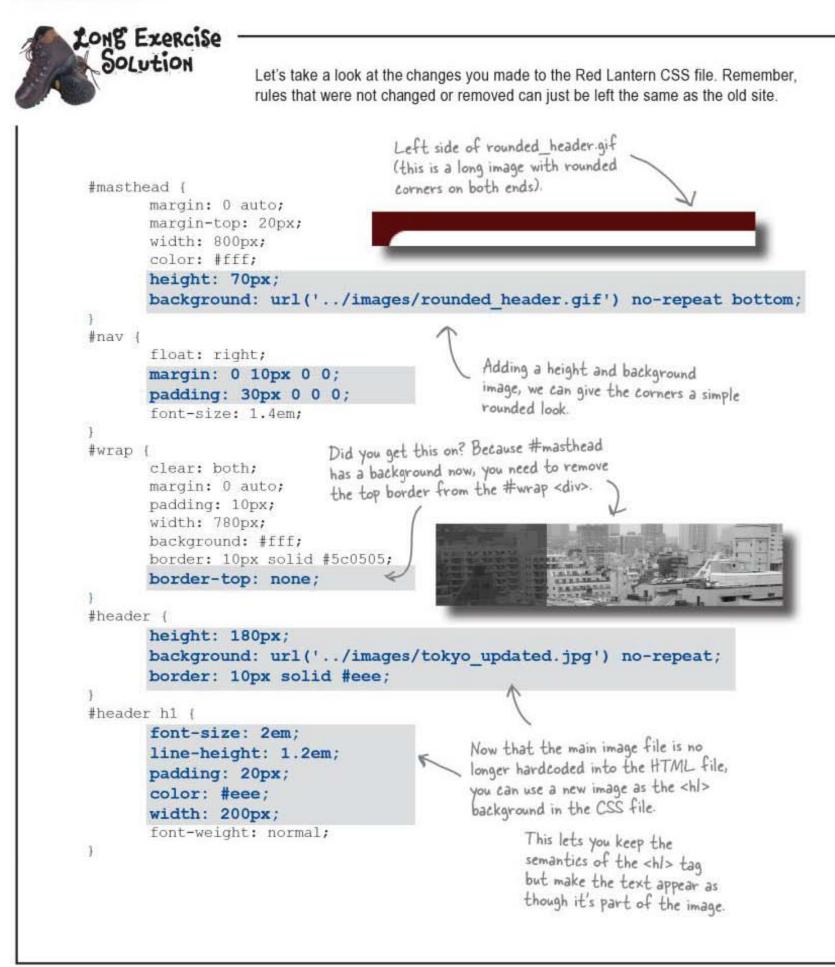


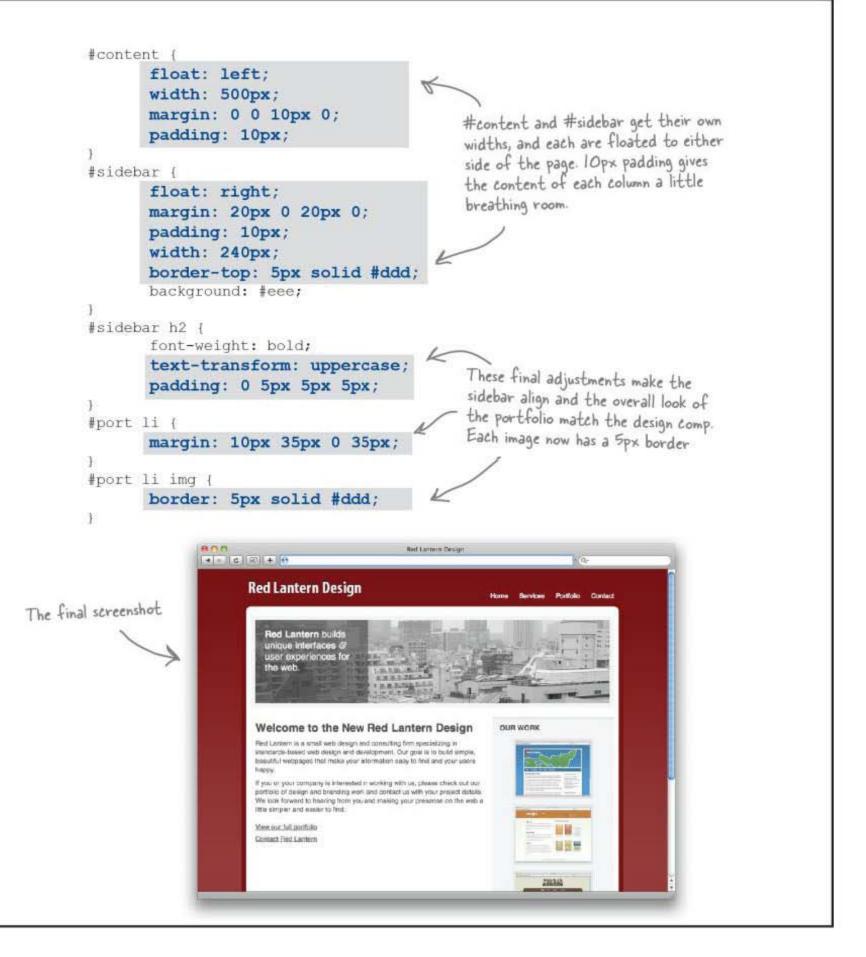


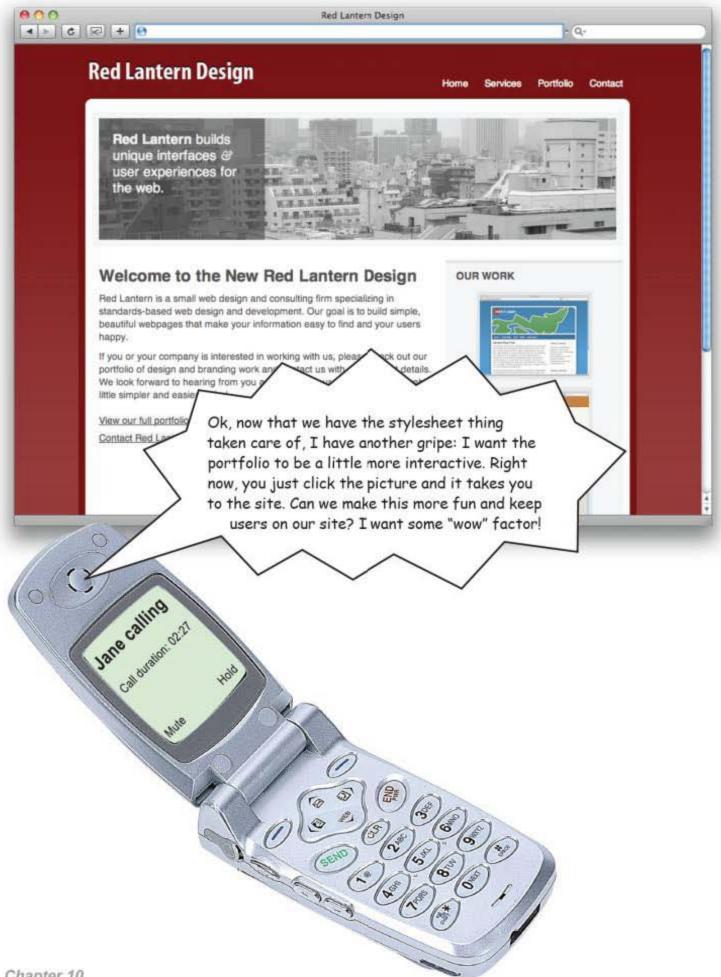
adjust red lantern's css



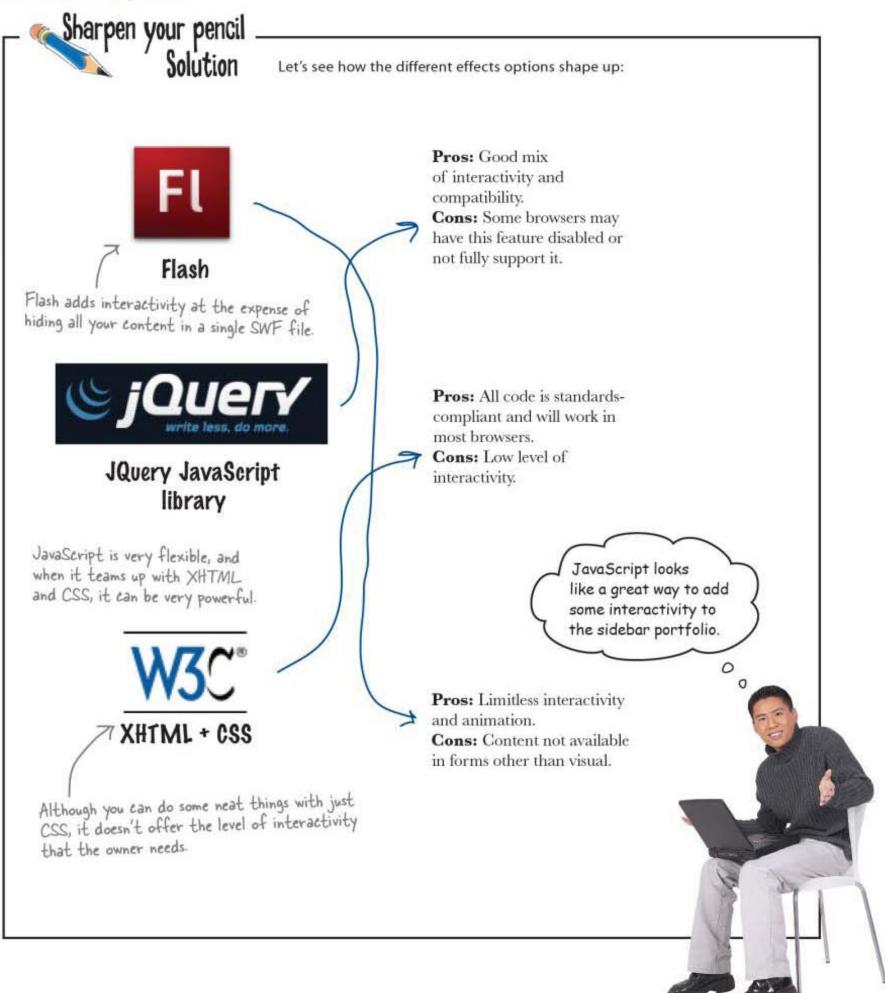












Hold on a second—I have to write JavaScript? That's complicated stuff, and I'm not a programmer!

0

You don't need to be a crack programmer to add interactivity with JavaScript.

JavaScript's a popular part of web design. It's used for all kinds of things from screen effects (like image lightboxes) to UI elements (such as sliders or accordion menus). The problem is, JavaScript can be intimidating for someone who's only had experience writing XHTML and CSS.

The solution is JavaScript libraries. These are pre-written JavaScript functions and controls that you can put in a directory on your server and call from within your markup. The cool thing is that you don't need to know very much JavaScript to take advantage of these libraries. They're also generally very lightweight, cross-browser compatible and standards-compliant.

There are lots of different JavaScript libraries out there. Some of the best include Dojo (www.dojotoolkit.com), Script.aculo.us (http://script.aculo.us), Moo tools (http://mootools.net), Prototype (www.prototypejs.org/), and JQuery (http://jquery.com/).

A Brain-Friendly Guide Head First Jacobi Construction Particle Particle

Want to really dig into JavaScript? Check out this book; it's pretty awesome.

Use JavaScript lightboxes to add interactivity to your site

Lightbox has come to mean any effect that takes an image or HTML page and displays it in a floating box in the middle of the screen. In some libraries, the background of the site fades out to add emphasis to the floating box. We're going to use a library called Facebox. This particular type of lightbox mimics the look of the pop-ups found on the Facebook social networking site. It's going to look great with the updated Red Lantern design.



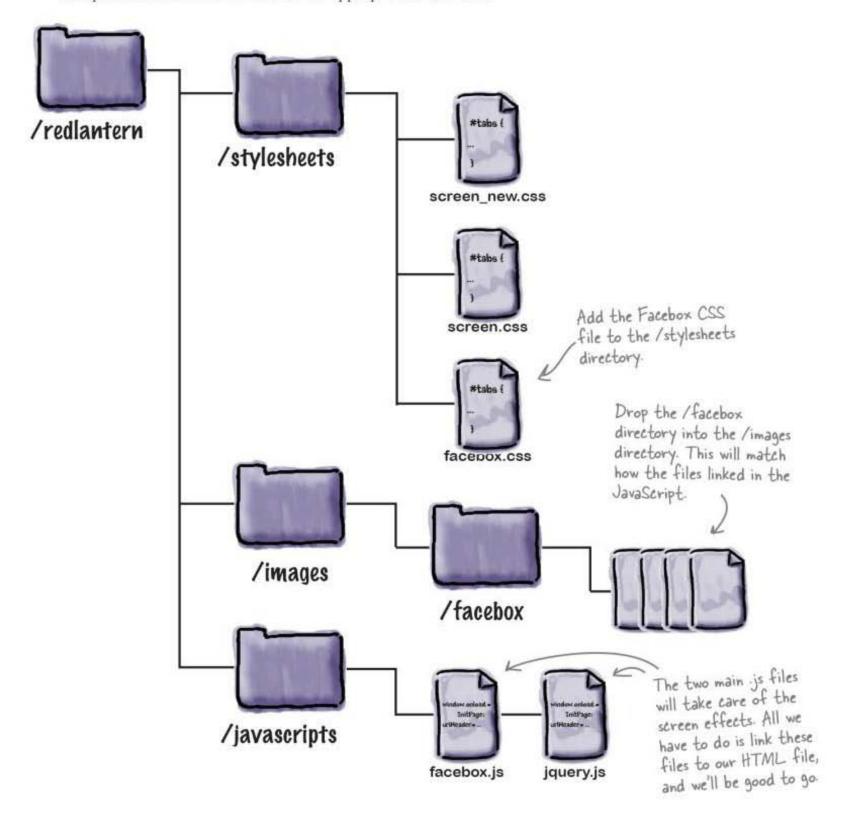
with a white background, semi-opaque border (with rounded corners to match our new design), and a close button.

This looks great. Let's

Add Facebox to the Red Lantern homepage

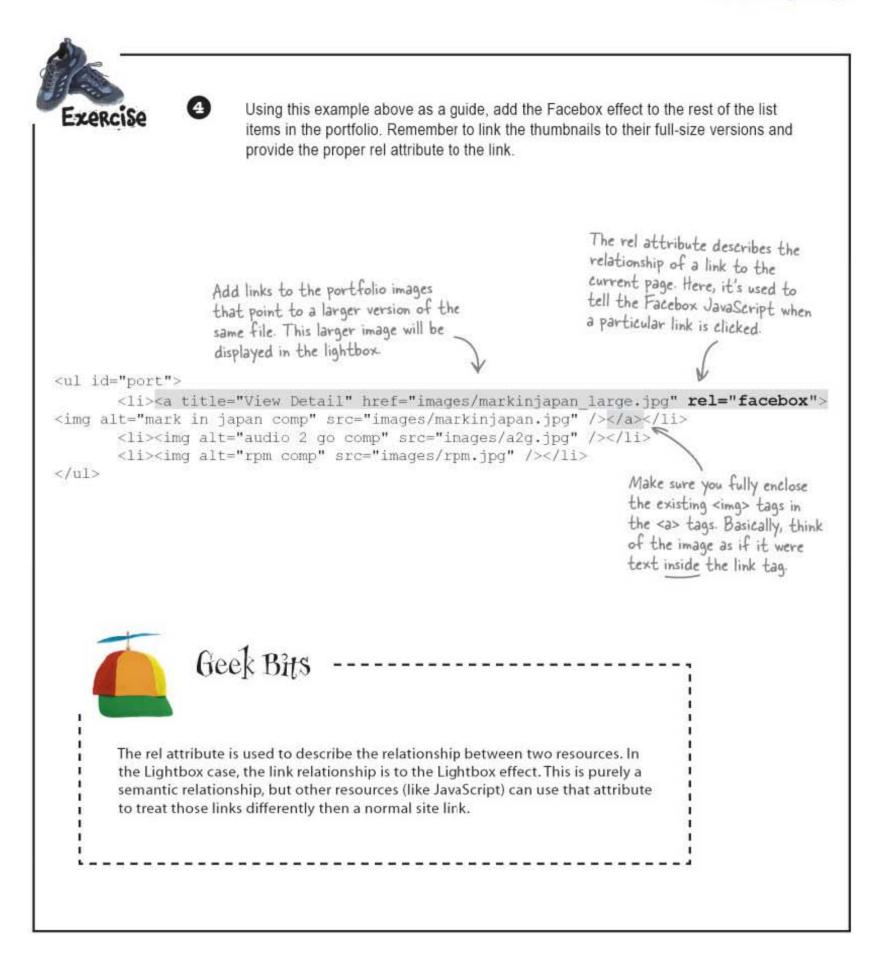


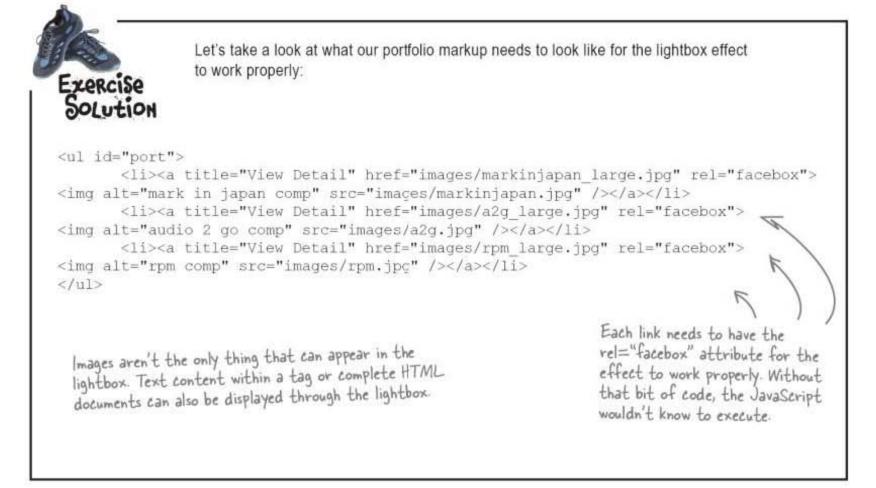
Download the Facebox code from the Head First site: www.headfirstlabs.com/books/hfwd and place the downloaded files in their appropriate directories.



Edit your index file

```
The Red Lantern
 B
        Add the CSS file to the header of the index.html file.
                                                                                index.html file.
              <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
                      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
              <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
              <head>
                     <title>Red Lantern Design</title>
                     <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
                     k rel="stylesheet" href="/css/screen new.css" type="text/css"
              media="screen" />
                     k rel="stylesheet" href="/css/facebox.css" type="text/css"
              media="screen" />
              </head>
              <body>
                                                           The box that appears on the screen has its
                                                            own stylesheet that controls how the box
                                                            appears. Add a link to the facebox ess file in the
                                                            document after the Red Lantern stylesheet
  3
        Add the JavaScript links and code to the header of your index.html file.
              <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
                      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
You need to
              <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
add links
              <head>
                     <title>Red Lantern Design</title>
to the new
                     <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
JavaScript
                     k rel="stylesheet" href="/css/screen new.css" type="text/css"
files. Put these
              media="screen" />
below the
                      k rel="stylesheet" href="/css/facebox.css" type="text/css"
stylesheet links.
              media="screen" />
                     <script src="javascripts/jquery.js" type="text/javascript"></script>
                     <script src="javascripts/facebox.js" type="text/javascript"></script>
                      <script type="text/javascript">
                             jQuery(document).ready(function($) {
                                     $('a[rel*=facebox]').facebox()
                             3)
                     </script>
              </head>
              <body>
                             Below the links to the JavaScript files is a small bit of
                             code that readies the Facebox JavaScript to act when
                             a link with the proper rel attribute is clicked.
                                        The Facebox code then takes over and uses the linked
                                        files and CSS to render the effect on the page.
```







Give it a shot. Add all the images and files to your own file structure and load up the page in a browser. How does it look?

Try another browser. Does it work the same way?

Q: You mentioned JavaScript might not be fully compatible with some browsers. What will happen if a user's browser doesn't support it?

A: That's right. Not all browsers support JavaScript. If that happens, since you added a link to the larger image, instead of displaying in the center of the existing page, the browser may still take a shot at displaying the linked image in a new blank page. Users would need to use their browser's back button to get back, but they may still be able to see the larger image.

Dumb Questions

Q: So if I can put text in a lightbox, too, wouldn't users miss out on that if their browser doesn't support JavaScript?

A: It's the same deal. Different browsers handle JavaScript differently, and as you can never be sure what level of support your users' browsers will have, this is another good reason to use JavaScript sparingly. If you're going to use it, make sure the content that it displays isn't crucial to your users' understanding of the site and its content.

Q: Hmm. Would Flash be a better option for adding interactivity?

A: It depends on what you're trying to achieve. If you want rich, animated, multimedia sections, Flash is a good bet, but here, we're just showing a larger version of an image. Of course, Flash has its own set of limitations (browsers need plug-ins, not all content is 100% accessible, and so on), so if you've got a site that's mostly contentbased, it's best to stick with HTML and CSS for the main presentation and add touches of interactivity here and there with JavaScript or Flash.

Those lightboxes look great, but... I don't know, are they going to keep people coming back to the site regularly? I know our designs are awesome, but I doubt users will be hitting F5 waiting for us to post the next one... Any ideas?



What do you think? How else could we add new content to Red Lantern to keep users coming back over and over? Hmm. The JavaScript stuff looks cool, but it's a onetime thing. How about a blog to keep users coming back?

Keep your content fresh with a blog.

Blogs have become a powerful tool for creating two-way communication with your users. You posting entries, and your users have the opportunity to comment on your posts and each other's comments.

A blog is a relatively easy way to add a constant stream of content to your site—which means that your site will always look fresh and give users a reason to come back.

Blogs also give your site a "voice." Instead of your site being somewhat anonymous, you can speak through your blog posts and reach out to other people.



If you're going to start a blog, make absolutely sure that you've got the time to post regularly.

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There's nothing worse than your users coming to your site, only to find that the blog hasn't been updated for 6 months. The only way to attract readers is to give them something new and interesting to read on a fairly regular basis.

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Adding blog functionality with WordPress

Jane agrees. She thinks it would be a great idea for the new version of the Red Lantern site to have a blog. That way, you guys can write design articles, post news about Red Lantern, and generally have a better avenue of communication with your users.

Jane's done some research, and she wants to use WordPress (http://wordpress.org). Why? Well, there are a bunch of reasons:



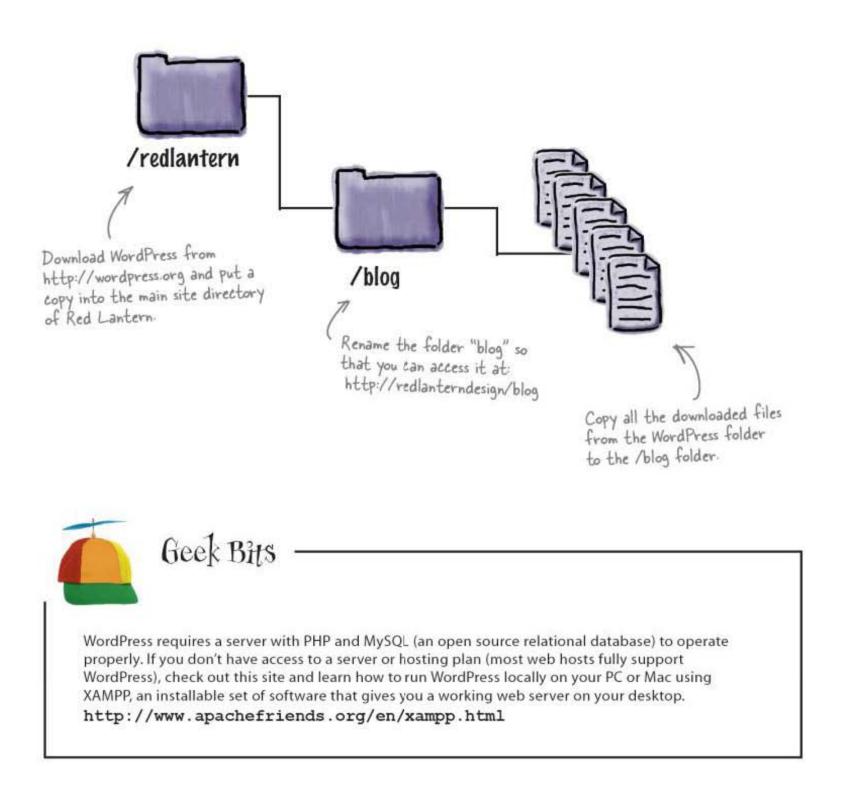
- WordPress is open source—which means there are thousands (perhaps even tens of thousands) of developers around the world contributing their efforts to make it better with every version.
- WordPress only requires PHP and MySQL to run (don't worry, we'll talk you through it if those terms sound a little scary).
- WordPress has an incredibly easy (and legendary) 5 minute install process.
- WordPress features a very simple templating system that lets you change the look of your blog with a click of a button. More importantly, it's really easy to develop your own templates (called "Themes" in WordPress speak). They're all written using CSS... so, if you happen to already have a site, and you want your WordPress blog to look just like it, it's just a matter of adapting the existing CSS.
- Best of all, WordPress is free!

This is default "Kubrick" theme that ships with WordPress and is designed to work with all of the special features of WordPress.



Add a WordPress blog to the Red Lantern site

To get Red Lantern's blog up and running, you need to download WordPress and get it set up on the server. You can download the WordPress files from: http://wordpress.org/download/



ercise	complete the WordPress installation and get the Red Lantern blog You'll have to rename wp-config-sample to the following:	
	ename the wp-config.php file so that the parameters match rom your own setup.	
// ** MySQL	settings ** //	
define('DB_	NAME', ('putyourdbnamehere'); // The name of the	e database
define('DB_	USER', usernamehere' . // Your MySQL username	8
define('DB	PASSWORD') 'yourpasswordhere'); //and passwo	ord
define('DB	CHARSET', 'utf8'); These four database paramet	ers are needed so
define('DB_	CHARSET', 'utf8'); that WordPress can build the COLLATE', ''); that will hold the blog data. the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog.	database tables
define('DB_	COLLATE', ''); that will hold the blog data. the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog.	database tables Follow the WordPre installer to get the Red Lantern blog u and running.
define('DB_	COLLATE', ''); that will hold the blog data. the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog. COLLATE', ''); the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog. COLLATE', ''); Welcome Welcome Welcome to the famous five minute WordPress instaliation process! You may want to browse the leadble documents of the famous five minute WordPress instaliation process! You may want to browse the leadble documents of the famous five minute WordPress instaliation process! You may want to browse the leadble documents of the famous five minute WordPress instaliation process! You may want to browse the leadble documents of the minute WordPress instaliation process! You may want to browse the leadble documents of the minute WordPress instaliation process! You may want to browse the leadble documents of the minute WordPress instaliation process! You may want to browse the leadble documents of the minute wordPress instaliation process! You may want to browse the leadble documents of the minute wordPress instaliation process! You may want to browse the leadble documents of the minute wordPress instaliation process! You may want to browse the leadble documents of the minute wordPress instaliation process! You may want to browse the leadble document of the famous five minute wordPress instaliation process! You may want to browse the leadble document of the famous five minute wordPress instaliation process! You may want to browse the leadble document of the famous five minute wordPress instaliation process! You may want to browse the leadble document of the famous five minute wordPress instaliation process! You may you you you you you you you you you yo	database tables Follow the WordPre installer to get the Red Lantern blog u
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define('DB_	COLLATE', ''); that will hold the blog data. the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog.	database tables Follow the WordPre installer to get the Red Lantern blog u
define('DB_	COLLATE', ''); that will hold the blog data. the installer, get the basic blog up and running on your local or server. Remember, we want to access WordPress at /blog.	database tables Follow the WordPre installer to get the Red Lantern blog u



Head First: Welcome Blog, it's good have you here. To start off, I've got to ask, what's with the name? Blog? Sounds like the sound a dog makes when its throwing up!

Blog: Really? Is that how this interview is going to go? Ok, I'll bite. The name "Blog" is a shortened version of "weblog," which is a combination of the words "web" and "log." Basically, back in the day when blogs first started out, they were just a log of what people were doing on the web (cool sites they'd visited, funny photos, yadda, yadda)—hence the name weblog (and then blog).

Head First: Sorry, maybe that wasn't the best way to phrase the first question. You've certainly come a long way from those early days haven't you?

Blog: You bet! Blogs have become a really powerful tool for communicating on the web. You see blogs everywhere—from personal sites to big corporate sites. Everyone has jumped on the bandwagon!

Head First: Really? That many people have blogs?

Blog: Yeah, we're talking millions, and millions, and... well, you get the idea.

Head First: Wow. That's a lot of people blogging. If there are that many people using blogs out there, it must be super duper easy to set them up?

Blog: Well, yes ... and no.

Head First: Yes and no? What kind of answer is that?

Blog: It's complicated.

Head First: Enlighten us, that's what you're for, right?

Blog: The technology behind blogs can be pretty complicated. They are dynamic web applications that store stuff (posts, comments, etc.) in a database on the server and use a server side language (like PHP) to pull stuff out of that database and put it on the actual site. The good thing is that blogs have become so popular, there are lots of accessible solutions for a wide variety of people with a wide variety of tech savvy.

Head First: Ok, that sounds good–can you talk about some of these solutions?

Blog: Well, blogs generally fall into two categories: hosted and installed. Hosted blog systems are created, administered, and maintained by a 3rd party (usually administered by the user through an easy to use online interface). Because the service lives on the host's server, you don't have to deal with installation or server configuration yourself. There are free hosted blog services (like blogger) and paid hosted services (like movable type).

Head First: Ok, I get hosted blogs...what about installed blogs?

Blog: Installed blog systems are basically software that you install on your own web server that run the blog. They can be more complicated than hosted solutions—especially for people who don't have access to a server (or any server experience). The good news is that there are a handful of installed blog systems out there (namely WordPress) that make it about as easy as it can get.

Head First: Wow, I never knew that there was so much to know about blogs—thanks for stopping by!

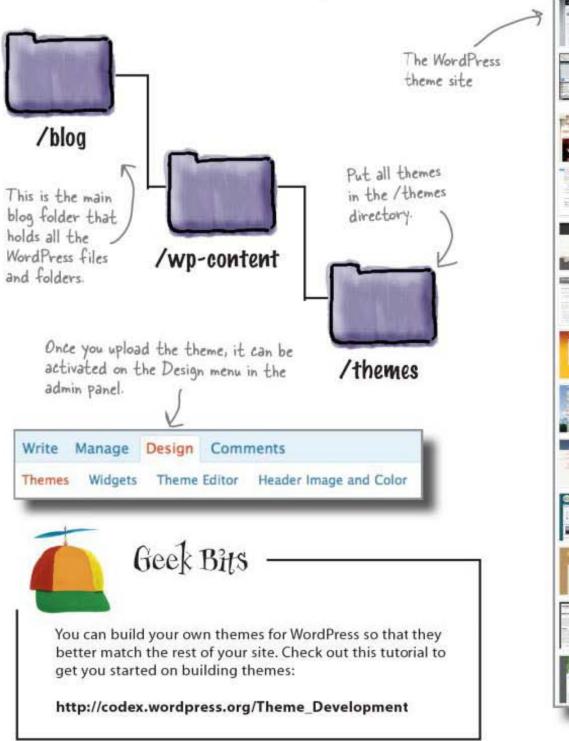


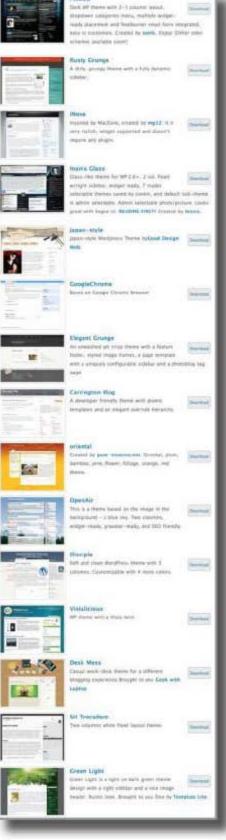
Take a look at what the blog looks like after you complete the WordPress installation.



Change the look and feel of your blog with themes

Themes for WordPress allow you to change the design of your site by uploading new designs for use in the software. The themes are a collection of files in a directory that hold the PHP code, markup, style and images of the new design. Once uploaded, you can activate a new theme from the WordPress admin panel.







tools for your toolbox

CHAPTER 10

Your Web Pesign Toolbox

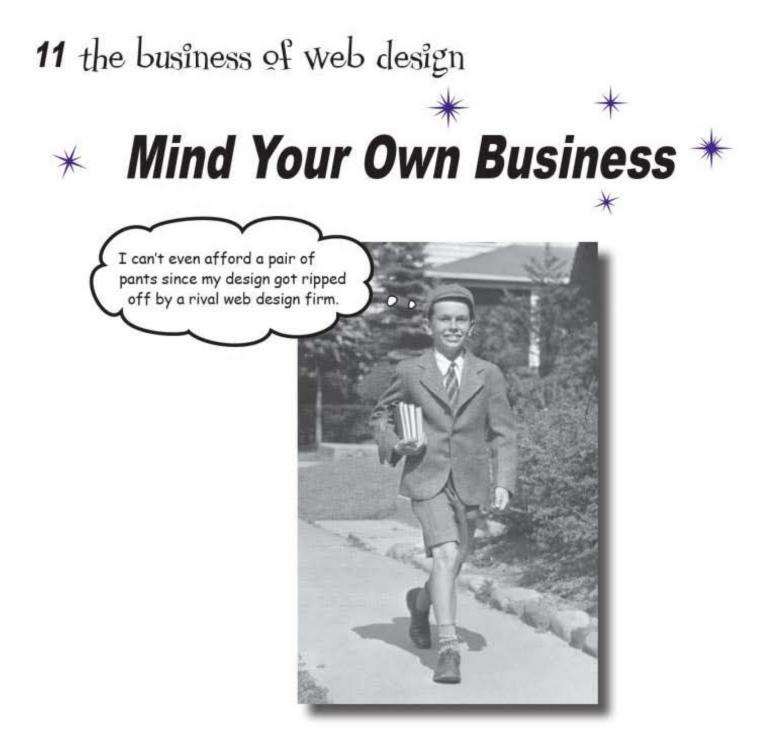
You've got Chapter 10 under your belt, and you've added some fresh content to your homepage.



tool.

- Your personal site is your best PR
- It's important that your site always represents your best and most progressive work.
- Fresh content will send a positive message to your users and keep them coming back.
- A website should evolve (change incrementally) instead of changing radically all the time.
- JQuery is a library cf prewritten JavaScript functions and controls that are put in a directory on your server and then called from within your markup.
- A lightbox is a page effect that displays images or other HTML content in a floating frame in the center of your page's layout.

- A blog provides you with a way to keep your content fresh and updated, as well as create a direct line of conversation with your users.
- Hosted blog systems are created, administered, and maintained by a 3rd party (usually administered by the user through an easy to use online interface).
- Installed blogs are made possible by software you install on your web server—they require a database of some sort (like mySQL) and support for a server side language (like PHP)



Business in a web design book? Are you kidding me?

You've mastered pre-production, information architecture, navigation, color, and even accessibility. What's left in your path to web design mastery? Well, you're going to have to tackle the business issues of web design. You don't need a Harvard MBA, but you better know more than just where you deposit your check... or those checks may stop coming. Let's look at establishing good client relationships and understanding your intellectual property rights. The result? Increased profits and protection for your hard work.

this is a new chapter 403

The newest potential client: the Foo Bar

Jane at Red Lantern just got wind of a big potential client: the Foo Bar, a popular restaurant that needs an online presence. After all the work you did for Jane with Red Lantern, she'd like you to take on the work. She's willing to pay you well, and give you a stake in her company if you can get the Foo Bar gig. Seriously... who could pass up a client named the Foo Bar?



What Foo Bar wants in a bid:



A basic HTML mockup of one page of the site, showing off the overall site's look, feel, and layout.

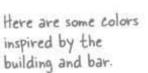


A color scheme for the site, including which design elements would have what color, represented in the HTML mockup.



A few succinct ideas for branding and logos that would fit in with the Foo Bar's new online presence.

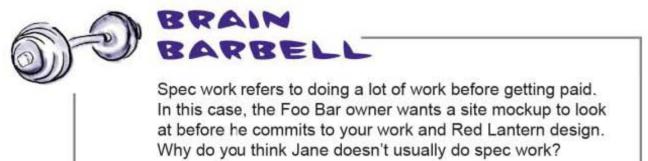










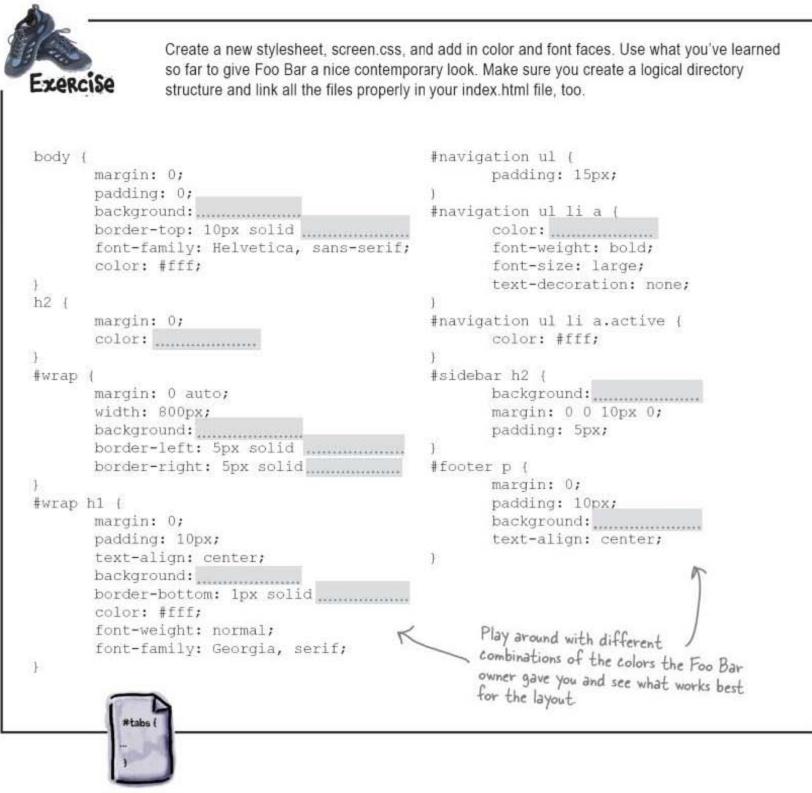


Let's build a quick mockup for the Foo Bar

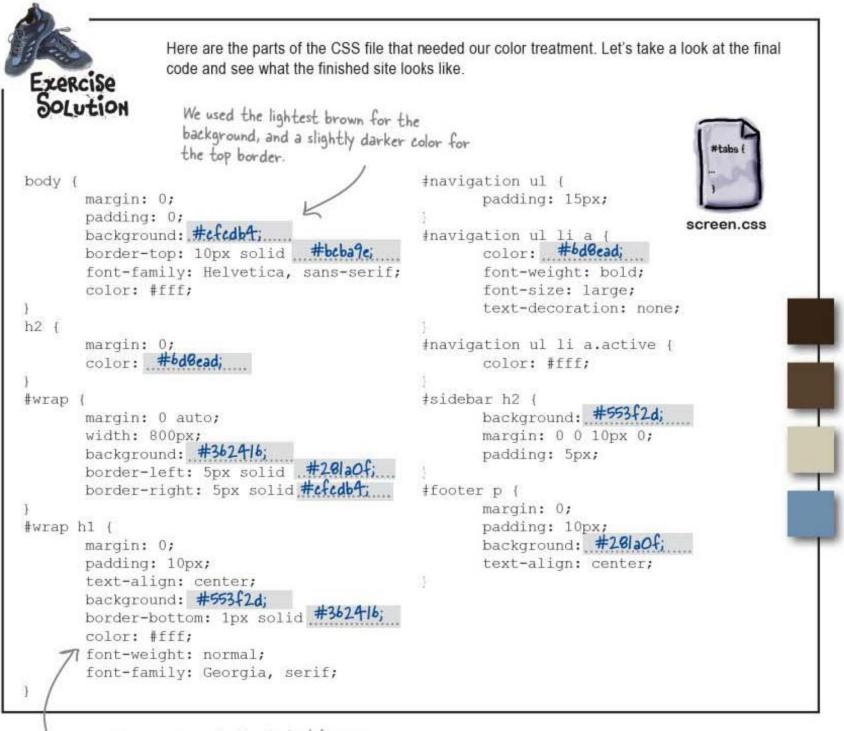
By now, putting together a mockup should be a piece of cake. Let's look at some XHTML for a simple version of the Foo Bar:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <title>The Foo Bar</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  k rel="stylesheet" href="stylesheets/screen.css" type="text/css"
       media="screen" />
</head>
<body>
  <div id="header">
   <img alt="foo bar logo" src="images/foobar logo.jpg" />
  </div>
  <div id="navigation">
   <a class="active" title="Foo Bar home" href="#">Home</a>
    <a title="Foo Bar menu" href="#">Menu</a>
    <a title="Foo Bar history" href="#">History</a>
    <a title="Contact us" href="#">Contact</a>
   </div>
  <div id="wrap">
   <h1>Welcome to The Foo Bar. Cold Beer Served Daily.</h1>
   <img alt="foo bar storefront" src="images/foobar front.jpg" />
   <div id="content">
    <h2>Get to the Foo</h2>
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis a felis.
       Sed ac mauris eget eros vestibulum luctus.
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis a felis.
       Sed ac mauris eget eros vestibulum luctus.
   </div>
   <div id="sidebar">
     <h2>Specials</h2>
     Monday
       Tuesday
       Wednesday
       Thursday
       Friday
     </div>
   <div id="footer">
     Copyright & copy; The Foo Bar, all rights reserved.
   </div>
  </div>
</body>
</html>
```

index.html



screen.css



The #wrap <div> gets the darkest browns and offers a nice contrast with the white text and light background.



/foobar

You can download all the files for the Foo Bar site from the Head First Labs website.



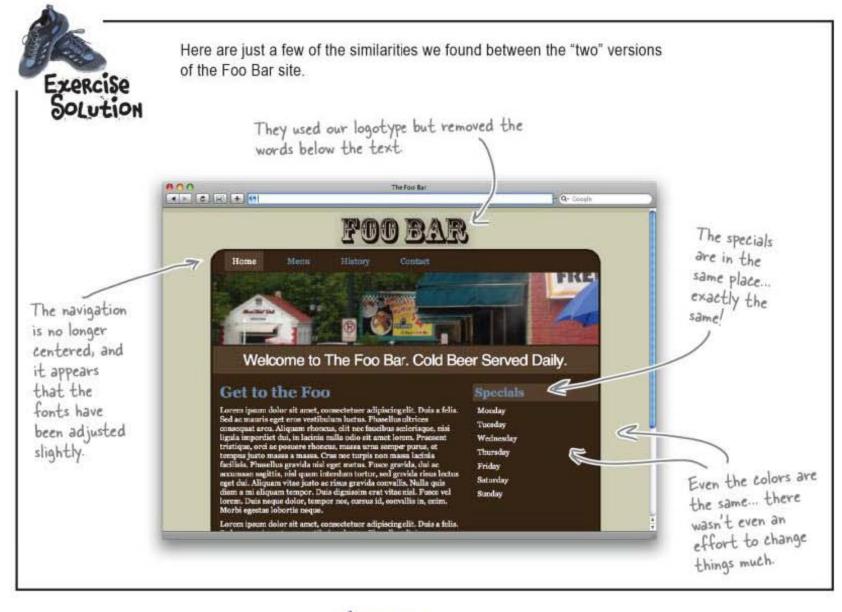
Create (or download) index.html, screen.css, and the Foo Bar images. Fire up your browser, and show the Foo Bar owner your layout and color scheme.







design pirates



Dumb Questions

Q: There's no way this was an honest mistake, is there?

A: That's a question you've got to ask, but it's usually one that's pretty easy to answer. When two sites look this much alike, it's hard to imagine a situation that doesn't involve stealing designs. Even if you had an exercise to develop a site that looked like the Foo Bar site, you'd probably make more changes than shown above.

Dunio Questions

Q: But this is the Web. Everyone rips everyone else off, right?

A: Well, it's like Mom said: just because your friends are dcing it, doesn't make it right. If everyone else jumped off a cliff... well, you get the idea. When you worked hard on a design, you're entitled to make sure it stays yours. Q: Okay, they definitely ripped us off. So what do we do?

A: Good question...

Welcome to the world of **PESIGN PIRACY**

It's been said that imitation is the highest form of flattery. But what happens when you come across a site that's clearly lifted your design? The problem is that the web makes copying (and stealing!) really, really easy. Source markup is easily viewable (and copyable), images are easily downloaded to a desktop, and CSS is quickly copied.

So, what exactly can you do? First, it's important that you know that if you created your site (and your design really is an original work), **you own the copyright**. Second, you don't have to put a copyright notice on the pages in your site for them to be copyrighted. So your design is already copyrighted!

So we own the copyright. Cool. But what does that mean? What should we actually do if our copyright's being violated?



Send a polite email.

Ask the owner of the offending website to remove your copyrighted material, or take down your copyrighted design. And as angry as you might be, keep it civil. It's far more likely that the offender will respond to your requests if you are polite.



3

Send a follow-up email and copy Google.

If you don't get a response, or get an ugly reply, send another mail and CC Google at spamreport@google.com. Google is committed to responding to clear violations of copyright. In fact, they're so concerned that their responses to infringement may include removing or disabling access to the site that's infringing on your material.

Consult a copyright lawyer.

If nothing else works, gets the lawyers involved. At the very least, a lawyer can deliver a cease and desist notification on your behalf. If you want to, a lawyer can even take your infringement site to court and possibly seek damages on your behalf. Just remember, copyright lawyers aren't cheap!

- This should really be considered as a last resort. It has the potential to get expensive fast.

You'd be surprised what and email can do. Often times the individuals that rip off designs are just hoping you'll never notice. The web is a big place, you know.

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Unauthorized use	e of copyright			
Red Lantern Design <redlante Reply-To: redlantern@gmail.cor To: The Foo Bar <contact@thef< th=""><th>71</th><th>Be polite, firm, a mention "legal act</th><th>Sat, Nov 15, 2 nd don't be afra ion" to get your</th><th>008 at 2:17 PM id to</th></contact@thef<></redlante 	71	Be polite, firm, a mention "legal act	Sat, Nov 15, 2 nd don't be afra ion" to get your	008 at 2:17 PM id to
To whom it may concern,	_	N	· /	1
It has come to our attention th mission. We had recently writt has ended up as your homepa use of that design or for our so continue any further use of ou	ten a bid for your company age. We were not notified t ervices. We are asking you	hat we had won the bid and re to please remove the materia	ceived no compen	sation for the
Thank you,				vas
Red Lantern Design, LLC				ng this to drag
	abar com>			glad they are
The Foo Bar <contact@thefoo To: redlantern@gmail.com</contact@thefoo 	obar.com>			he site down.
10. 100.00			\sim	\sim
logos associated with Red La	antern. Again, we appologiz	the copyrighted material and a ze for the misunderstanding an we can do.	hope we can avo	bid any and all
[guoted text hidden]				141
** Sector Stranger Stranger Stranger)			
Sincerely,		wasn't expecting us to look	c at	MAN
Sincerely, Foo Bar Management	their site and see	med eager to avoid legal ac ne thought of legal trouble ple to comply.	tion. t is	
	their site and see Sometimes, just th	he thought of legal trouble	tion. t is	
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	their site and see Sometimes, just th enough to get peo	he thought of legal trouble	tion. : is	

Okay, this totally sucks. I have no desire to deal with all this infringement and copyright crap. I just want to design web sites!

0

There's more than one type of web designer.

Some folks want to just design sites. Others have visions of starting companies and poring over spreadsheets. Of course, most folks fall somewhere in the middle. There are lots of different roles, even just in the web design universe. Are you wondering what parts of web design you need to worry about?

Which of these types of web workers do you think you are?



Copywriter

A programmer may be responsible for writing backend code that controls features of a website. They could also write Javascript and build AJAX functionality.



you are here > 415



I am good at writing HTML and CSS and enjoy taking designs and expressing them in markup and stylesheets.

1 2 3 4 5



I enjoy making webpages behave like desktop applications with Javascript and AJAX.

1 2 3 4 5



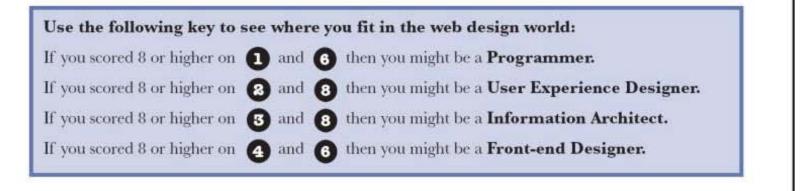
I like learning about user patterns by observing how others interact with websites.

1 2 3 4 5



I like to think about navigation and what content is most important to a particular project.

1 2 3 4 5



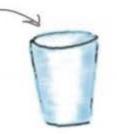


This is the simplest form of business structure because there isn't actually any structure. All income and liabilities are accrued by the owner on their personal finances.

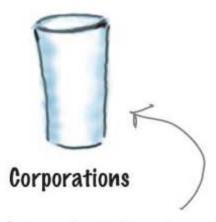
 $\hookrightarrow 0$

Sole Proprietor/Partnership

LLC's are a fairly new type of business organization, and their rules vary from state to state. An LLC (or LLP) gives the owner the simplicity of a Sole Proprietor with the personal finance protection of a corporation.



Limited Liability Companies



A corporation is the most complicated business structure. The company itself becomes it's own entity, and strict rules must be followed while running a corporation. Corporations can also be expensive to start, and a good lawyer is a key ingredient.

Choose your job—and your business—based on knowing who you are in the Web universe.

So, I'm a front-end designer. I thought so... but what does that

have to do with dealing with

copyrights and stuff?

If you're happy being a designer for a web firm, then copyrights probably aren't going to be a problem anytime soon. Then again, with all the good work you're doing for Jane (and your own boss!), you might get asked to join the leadership team on a company one day.

Or, if you're really into control and entrepreneurship, you may want to start a company yourself. Knowing who you are helps you choose the right company, and the right people to put around you.

And if you are into starting a company, there are lots of different types... just like there was more than one type of web worker:

Write the business structure you think best fits the description of

the company.



Take a look at the different business descriptions and write in the blank whether you think they are a Sole Proprietorship, an LLC, or a Corporation.

Businesses

Jim and a friend own a small design company together, which they work at full time. Their company supports both of them, and they are thinking about bringing on a third designer to help them with projects.

Joe has a full time job with a large computer company and builds websites in his spare time for small local businesses and friends. He makes some money here and there but not enough to support him full-time.

Green Giant Design employs 4 full-time people and has a six-figure annual revenue year after year. The owner works as the creative director and likes the fact that her company has remained small and services local companies.

Nationalweb is a large design firm with offices in Chicago and New York. Most of their clients are large multi-nationals, and they are even considering opening up a European office in London.



Let's take a look at how these different companies are structured and organized.

.....

Businesses

Jim and a friend own a small design company together, which they work at full time. Their company supports both of them and they are thinking about bringing on a third designer to help them with projects. Because this is a partnership, a more formal business structure like an LLC would be best. Plus, this makes finances much easier to deal with.

LLC

Joe has a full time job with a large computer company and builds websites in his spare time for small local businesses and friends. He makes some money here and there but not enough to support him full-time.

Green Giant Design employs 4 full-time people and has six-figure annual revenue year after year. The owner works as the creative director and likes the fact that his company has remained small and services local companies.

Nationalweb is a large design firm with offices in Chicago and New York. Most of their clients are large multi-nationals, and they are even considering opening up a European office in London.

Sole Proprietor

Joe doesn't have consistent business and building websites isn't even his first job. The extra income he makes on the design gigs will just show up on his personal income statements.

LLC

Although Green Giant Design could easily incorporate, an LLC is all they really need right now. There's not a problem with an LLC hiring employees.

Corporation

Nationalweb does business nationally and possibly internationally. A corporation is the smartest structure for this business. Jane's musing her structure at Red Lantern design

0

Red Lantern operates as an LLC. We're really not big enough to incorporate, and LLC's were inexpensive to start. Besides, I'd rather spend my time looking for new business, not dealing with more paperwork. Speaking of new business...

Red Lantern's got a new prospective client

Jane's just received an email from a little San Francisco-based startup called Trilobite Labs, who needs a new site, ASAP. Trilobite Labs is building a series of really cool iPhone apps, and they need a site that really reflects their design sensibilities, but don't have the time (or the expertise) to build it themselves. They love Red Lantern's site aesthetic, and Jane needs you to replicate success one more time.

Here's what Trilobite's looking for:

Client Requirements

A static website with a front page, an About page, a contact page, and three separate product pages.

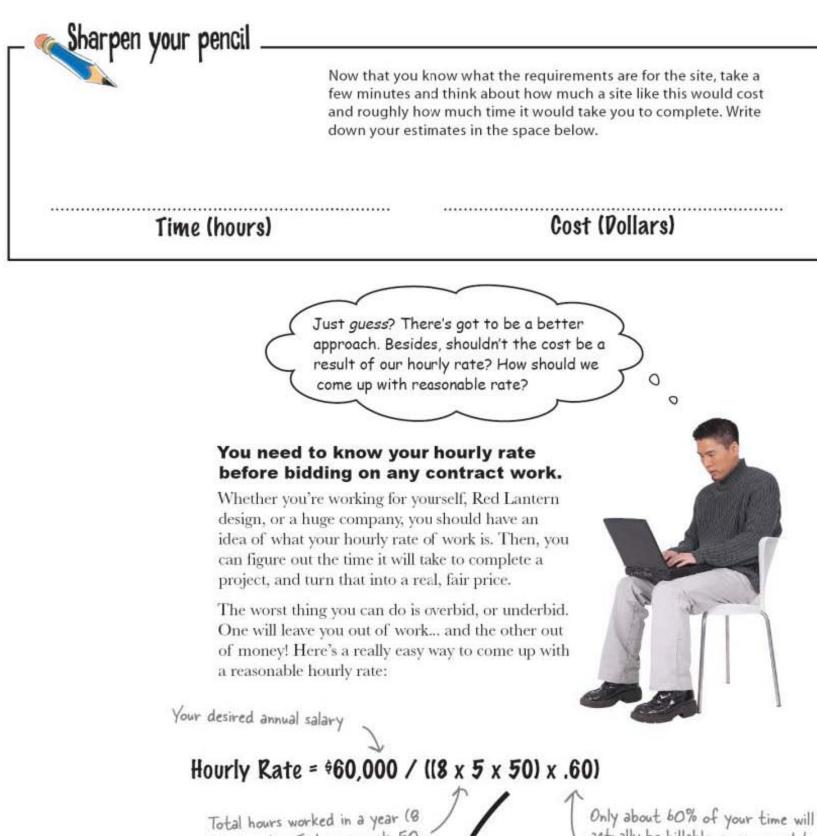
Standards-compliant code. Trilobite's site has to work on all sorts of devices, too.

Some type of screen effect for their product portfolio. Trilobite wants to appear cutting edge to represent their work on iPhone apps.

Several different designs (paper is fine) to choose from, and an ability to provide design feedback that will get incorporated into the final site.

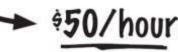
Low-key usability testing to make sure there aren't any problems before the site goes live.

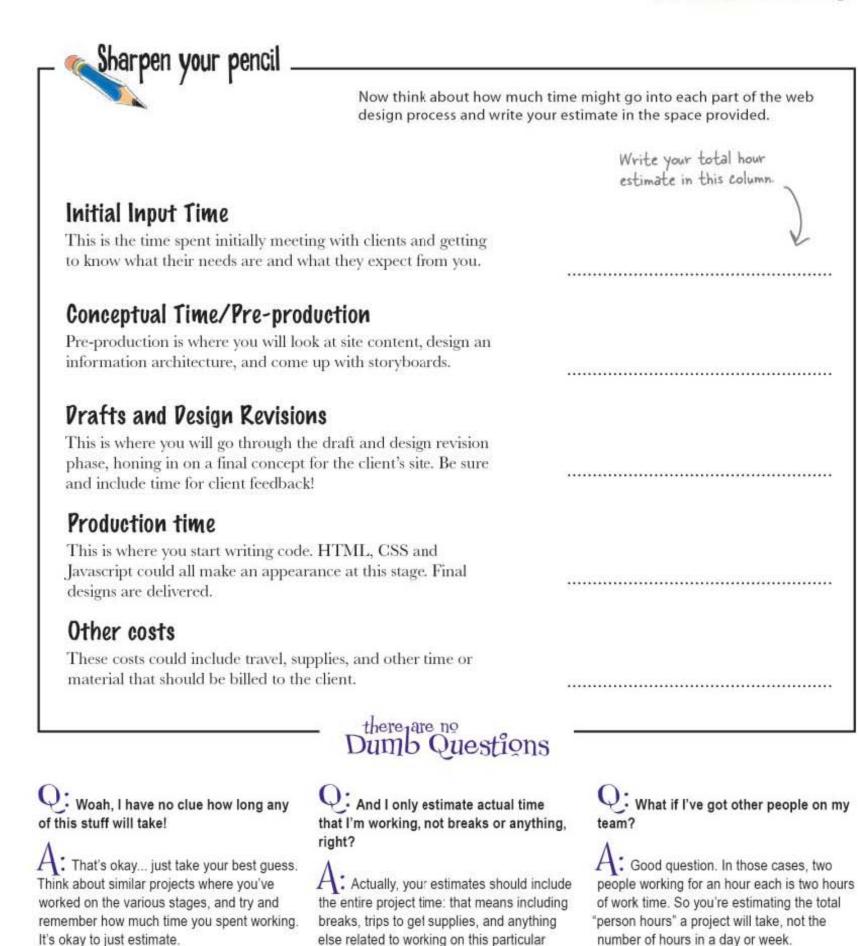
One of Trilobite's iPhone apps lets you check lines - at the Apple store so you don't have to wait in line for that new 3G iPhone.



hours a day, 5 days a week, 50 weeks a year). This is pretty conservative if you're trying to start a business, you know

Only about 60% of your time will actually be billable, so you need to multiply your yearly hours by .60.





project.

Sharpen your pencil Solution What really goes into designing a website? Initial Input Time 20 hours This is the time spent initially meeting with clients and getting to know what their needs are and what they expect from you. This includes about 5 hours of meeting time, 13 hours of research, and a few for travel. **Conceptual Time/Pre-production** 30 hours Pre-production is where you will look at site content, design an information architecture, and come up with storyboards. 1A diagrams and storyboards could take the better part of two weeks to complete. **Drafts and Design Revisions** 40 hours This is where you will go through the draft and design revision phase, honing in on a final concept for the client's site. Be sure and include time for client feedback! Time in this stage can vary depending on how your client reacts to the drafts you provided. **Production time** This is where you start writing code. HTML, CSS and 40 hours Javascript could all make an appearance at this stage. Final designs are delivered. This time is all production. Markup, style and design. Code, code, code. Other costs 10 hours These costs could include travel, supplies, and other time or material that should be billed to the client. Extra travel time, sub contractor fees, and expenses can all up the time in this category.

Figure out a total bid...

The hourly rate we calculated a few pages back.

Hourly Rate = \$60,000 / ((8 x 5 x 50) x .60) = \$50/hr

(140 hours) x (\$50.00/hr) = \$7000.00

This price represents the cost of a small-to medium-sized website done by an individual . charging \$50/hour.

Q: Do you need all the people in the web design universe to successfully complete a site?

A: No, not really. If you're a freelance web developer, you may wear many hats and be able to work with your clients throughout the design process. If you need to, you can bring in a contractor to complete work that you can't do yourself (like back-end programming).

Q: What's the difference between an LLC and LLP?

A: The two types of structures are essentially the same thing. LLP stands for Limited Liability Partnership and is just an LLC with more than one shareholder or owner. Most of the time, you will see professional services like accounting and law firms organize as LLPs.

Dumb Questions

Q: Is \$50/hour the average? What's the range of hourly rates you can expect to find at design firms?

A: \$50/hour is actually on the low end. Professional hourly rates range anywhere from \$50-\$75/hour all the way up to above \$200/hour. These rates vary depending on location, experience, and size of company.

Q: What happens if I underestimate the time it takes to complete a project?

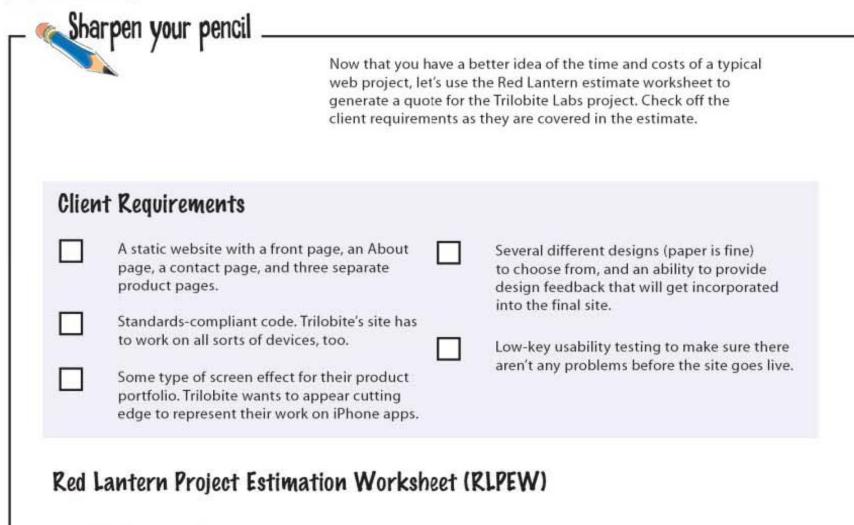
A: This is common. Most projects are quoted on a job estimate and the final price can vary up or down from the original quote. The most important thing you can do is communicate with your client and let them know where you are in your process, and how close the final price will be to what you originally quoted.



Q: Is there a resource for finding out what other people are charging and what services cost in other design-related fields?

A: Occasionally the American Institute of Graphic Artists (AIGA) publishes their the Pricing and Ethical Guidelines for design professionals. This includes web design and has information on salaries, hourly rates, and industry standards for the field.

> AlGA's Pricing and Ethical Guidelines book.



Job Description:

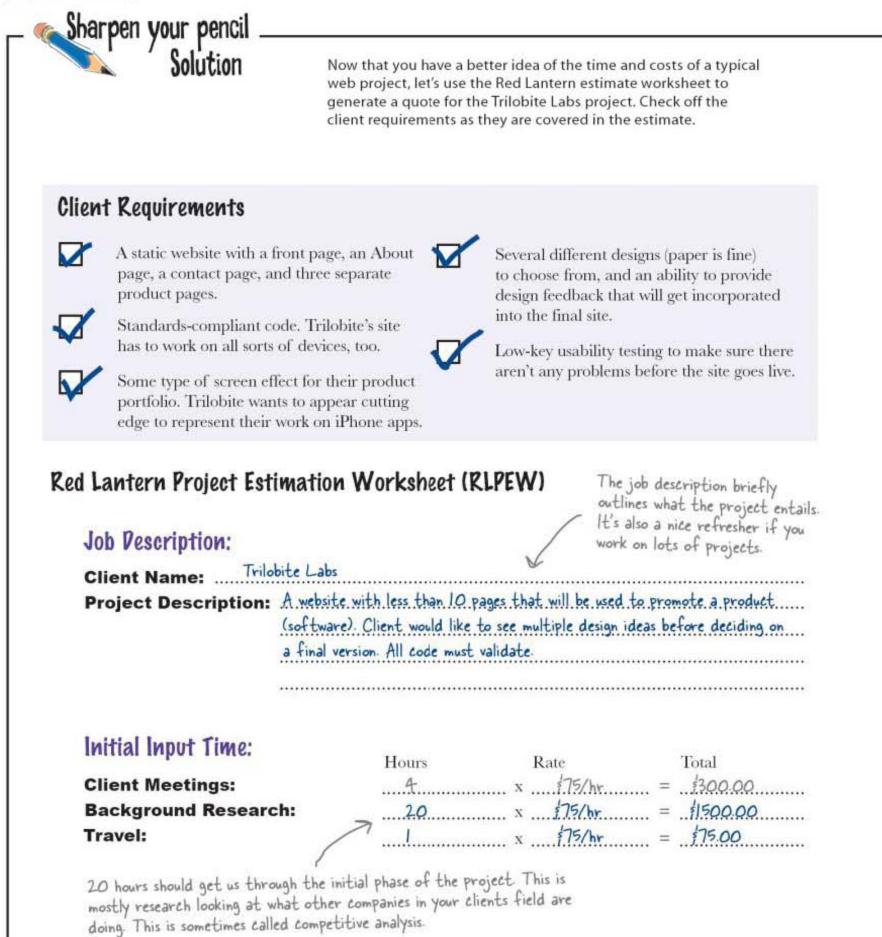
Client Name:	
Project Description:	

Initial Input Time:

	Hours		Rate		Total	
	4	x		=	\$300.00	
:		х		=		
		х		=		

Client Meetings: Background Research: Travel:

Pre-production Time:	Hours	Rate	Total	
In-house Meetings: Information Architecture: Wireframes: Theme Concepts:	X X X X		y this sheet!	
Drafts and Design Revisions: Client Meetings: Storyboards: Storyboard Revisions:	x x x	here is sheet m In fact, sheet fo 	to see what a real bid ight look like. You may want to copy this r your own bids. The next some sample entries for eal web design ich wight	
Production Time:				
XHTML and CSS: Back-end Programming: Graphics and Artwork: Copywriting: Validation and Debugging:	x x x x x	= = =	= =	
Miscellaneous Expenses:				
Fonts and Graphics: Software: General Supplies	x x	=	=	
Totals	 Total Project Hours	Total Co	ost	



Pre-production Time:

Hours Rate Total	
In-house Meetings: 2. $x \frac{1}{5}$ /br = $\frac{1}{50.00}$	
Information Architecture: $10 \times \frac{175}{hr} = \frac{11350.0}{1350.0}$	
Wireframes: 10 x $\frac{1}{75/hr}$ = $\frac{1}{750.00}$ Theme Concepts: 6 x $\frac{1}{75/hr}$ = $\frac{1}{4450.00}$	
and a second	
Pre-production is important and can save you lots of)	
time and headaches down the line if done properly.	
Prafts and Design Revisions:	
Client Meetings: 2 x \$75/br = \$150.00	
Storyboards: 15 x \$75/hr = \$1125.00	2
Storyboard Revisions: 7 5 x \$75/hr = \$375.00	
(Drafts and Production is where your design really starts to shine. This is where the client will first see	
Production Time: where all that time has gone.	
XHTML and CSS: 30 x $\frac{175}{hr} = \frac{12250.0}{12250.0}$	
Back-end Programming: 0 x \$75/hr = \$0.00	
Graphics and Artwork: 10 x \$75/hr = \$750.00	
Copywriting: $2 \times \frac{175}{hr} = \frac{1150.000}{110000000000000000000000000000000$	
Validation and Debugging: $4 \times \frac{175}{hr} = \frac{1300.00}{1300.00}$	2
These expenses we not hilled have by These II I	
These expenses are not billed hourly. Typically they are billed at cost plus some percentage of markup.	
Miscellaneous Expenses:	
Fonts and Graphics: $-x = \frac{1}{200.0}$	0
General Supplies x =	
Building great websites	_
takes time and money.)
Total Project Hours Total Cost	

The guys from Trilobite Labs think your estimate's a bit high. We can't lose another bid... got any ideas?

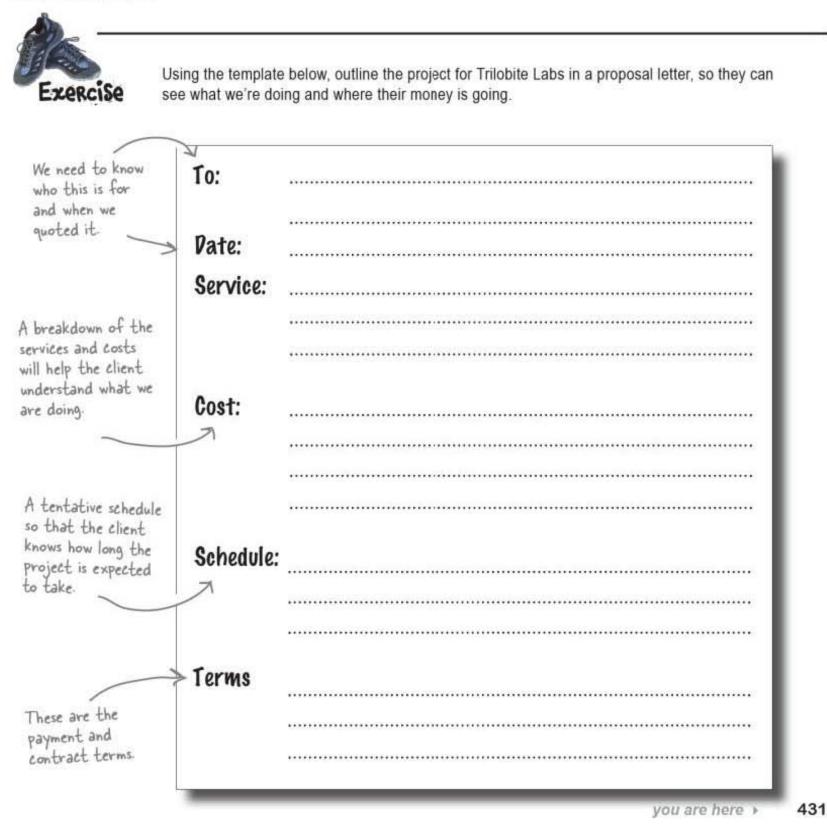
Talking back is highly recommended.

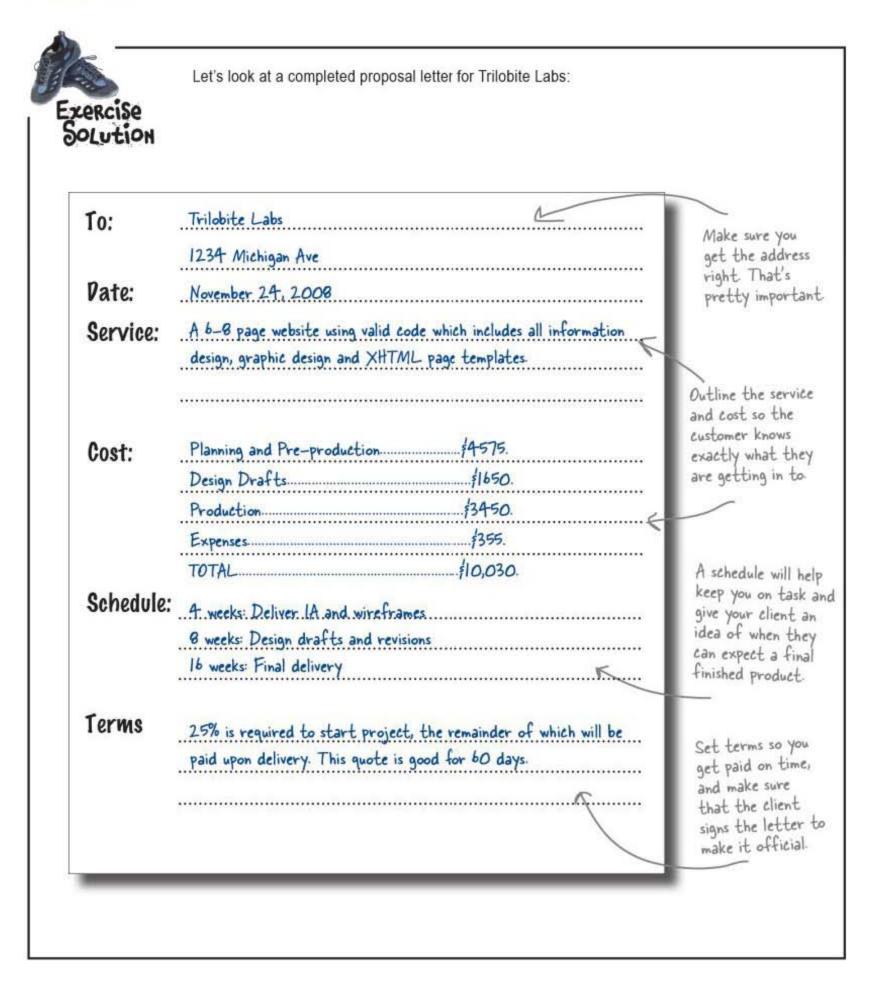
It's pretty much a foregone conclusion that you're going to have potential clients who'll look at your estimates and immediately start to argue that the price tag is too high. If you're experienced, confident in your design skills, and have done a good job estimating project costs, it's part of your job to explain to a potential client why the cost estimate is what it is.

It isn't "against the rules" to respond to a client with a justification for your bid. Unless you have a really solid reason, you shouldn't let a client bully you into lowering your price. This not only devalues your skills as a designer, but might put you in a position where you're putting more work into a project than you're actually getting paid for-which is a good way to **ruin** a business, rather than **run** one. 0

Use a proposal letter to deliver a detailed quote to a client

A proposal letter details all your costs to a client. But, it can also make it clear exactly how you came up with your bid. Sometimes outlining individual costs is all a client needs to understand the value you could bring to their project.





The Trilobite podcast: a(nother) new challenge

In the midst of waiting for a decision from Trilobite Labs about your bid, you get a call for their CEO. Over lunch a couple of days ago, the guys at Trilobite came up with another idea that they want to throw into the mix: podcasting. Trilobite really wants to start an official company podcast that covers all of the intricacies of developing for the iPhone and iPod Touch. It's up to you to work out how podcasting fits into the bid you've already put together.

But there's a wrinkle: Trilobite's really worried about protecting their podcast. They wants people to be able to download the podcast for free (and share it with anyone they want). What they don't want, though, is for some other website to take their podcast and re-sell it. It's up to you to handle this problem, along with the rest of their web-related design issues.

Use Creative Commons to license your work

Copyright law is complicated (remember our issues with the Foo Bar stealing our design?). So, where does this leave the average artist, producer, writer, developer, or musician who wants to communicate how they want their work used by others, but doesn't want to swim in the shark infested waters of traditional copyright? It leaves us with the Creative Commons.

The Creative Commons (http://creativecommons.org/) is a non profit organization dedicated to expanding the range of creative works available for others to build upon legally and to share. They've developed a series of simple copyright licenses that protect the "base rights" of the creator. These Creative Commons Licenses have become an enormous force in the modern world of media production.



Creative Commons was founded in 2002 by researchers from MIT, Harvard and Stanford

Copyright issues arise more than you might think. Can you come up with three things you've done in the last 12 months you might want to copyright and protect?



Trilobite wants to upload the company podcasts to the Apple iTunes Store.

Creative Commons Licenses

This page would not be possible without Creative Commons (http:// creativecommons.org/about/license/)

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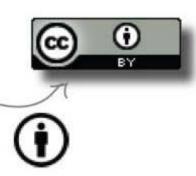
This license lets others remix, tweak, and build upon your work non-commercially, and although their new works must also acknowledge you and be non-commercial, they don't have to license their derivative works on the same terms.

Attribution Non-commercial Share Alike (by-nc-sa)

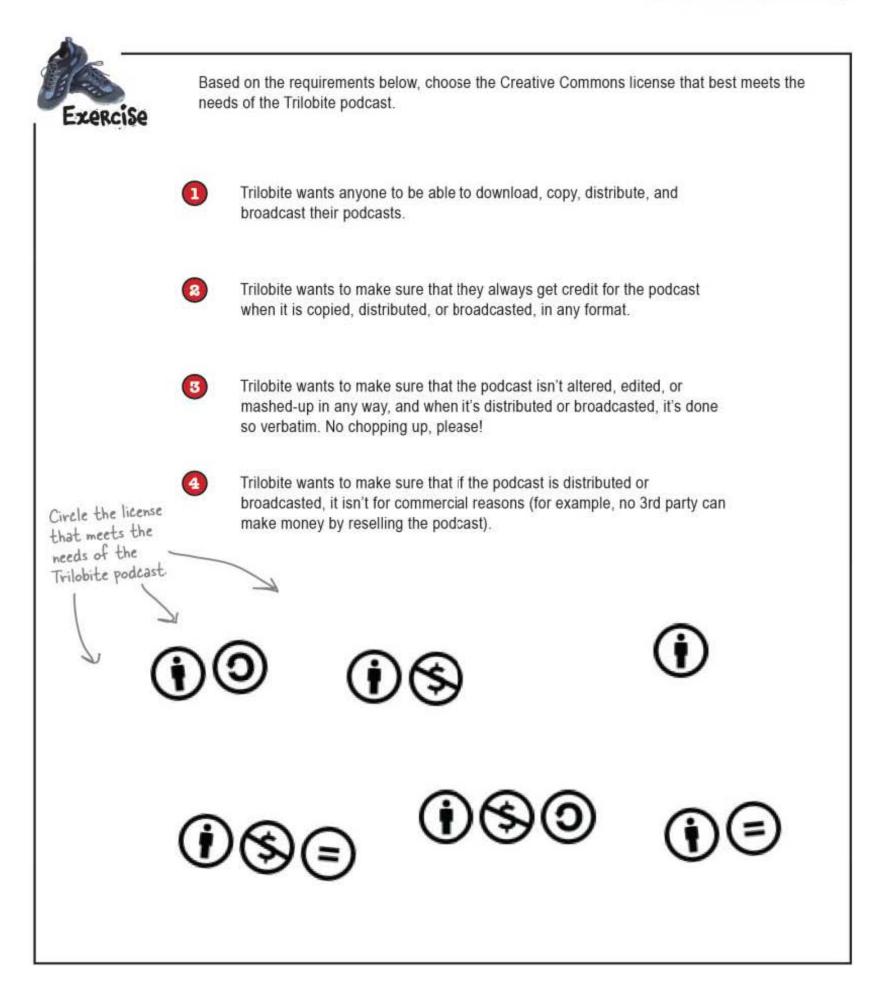
This license lets others remix, tweak, and build upon your work non-commercially, as long as they credit you and license their new creations under the identical terms. Others can download and redistribute your work just like the by-nc-nd license, but they can also translate, make remixes, and produce new stories based on your work. All new work based on yours will carry the same license, so any derivatives will also be non-commercial in nature.

Attribution Non-commercial No Perivatives (by-nc-nd)

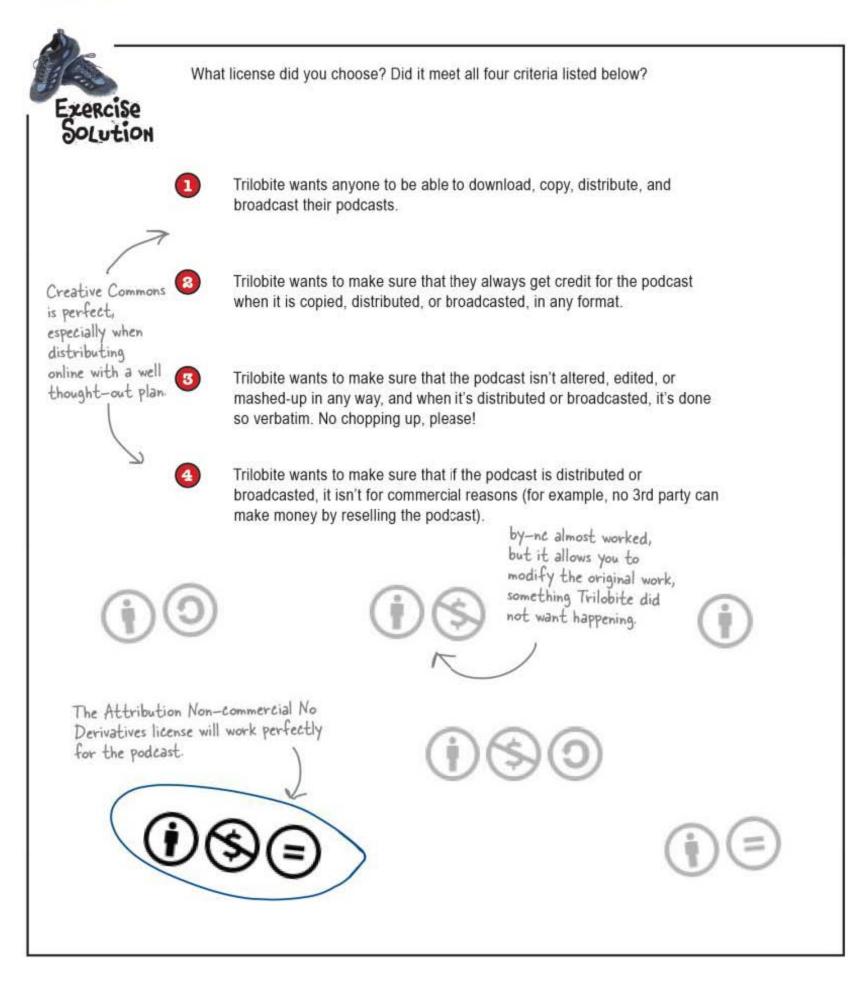
This license is the most restrictive of our six main licenses, allowing redistribution. This license is often called the "free advertising" license because it allows others to download your works and share them with others as long as they mention you and link back to you, but they can't change them in any way or use them commercially.

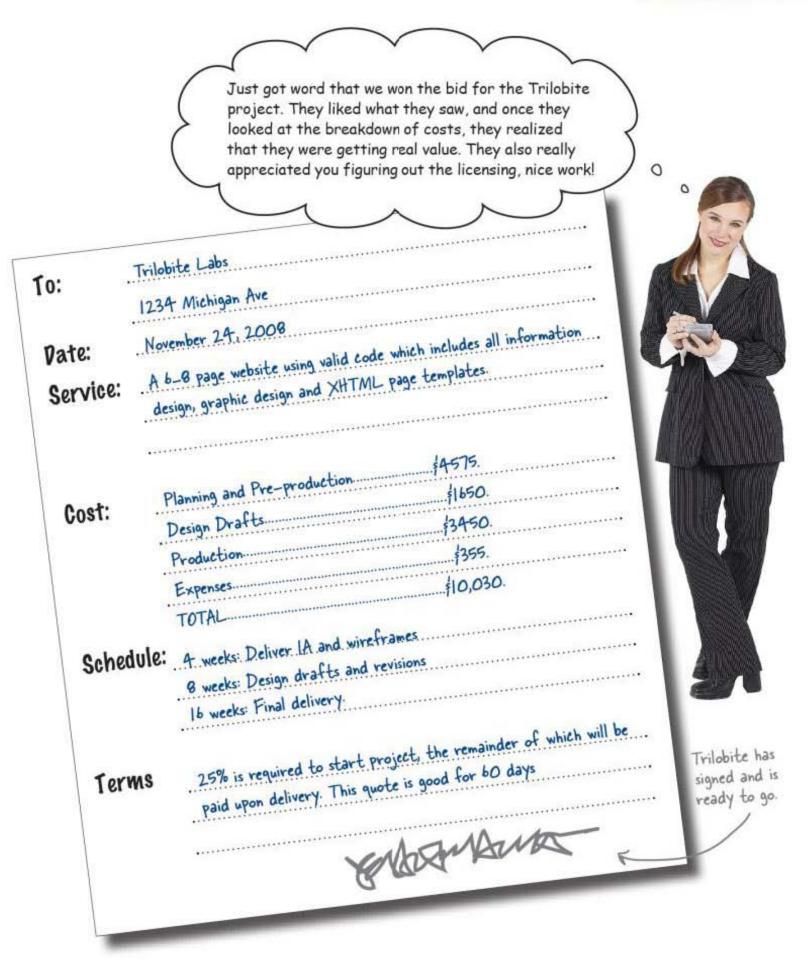


•••



using the right license





your toolbox

Your Web Pesign Toolbox

At this point, it's time to take things out into the world. Stop reading. Well, read the bullets below, and then stop reading. Or maybe after you read the appendix...

...in any case, you're a web designer! Put this book down and go design. Go make beautiful, accessible, usable web sites. The Web could use a lot more of 'em.



BULLET POINTS

- Any original work (design, code, etc.) is copyrighted-regardless of whether you put a copyright statement on it or not.
- A polite email asking that copyrighted material be taken down is an effective strategy for protecting your copyrighted work.
- Developing and presenting a professional identity and capitalizing on that identity is extremely important to being a successful web worker.
- It's important to understand all the different roles in the development of a website and where you fit in within that structure.
- Sole Proprietors, LLCs, and Corporations are business structures that allow varying degrees of liability protection and act as framework for how you run your business.

- Do your homework when bidding on new work. Make sure you are charging appropriate rates and not short-changing yourself because of low-ball estimates.
- The hourly rate of a web designer can be anywhere from \$50/hr in small markets to over \$200/hr for large projects at larger firms.
- Use a Proposal Letter to outline the terms of a project for a client to make sure they understand what they are paying for and what they are getting.
- Making sure that both you and your client are clear about what is expected of one another will save you a lot of trouble in the long run.
- A Creative Commons License is a way to communicate how you want your creative works used by others.

CHAPTER 11





We've really covered a lot of ground in this book. The thing is, there are some important topics and tidbits that didn't quite fit into any of the previous chapters. We feel pretty strongly about these, and think that if we didn't at least cover them in passing, we'd be doing you a disservice. That is where this chapter comes into the picture. Well, its note really a chapter, its more like an appendix (ok, it *is* an appendix). But it's an awesome appendix of the top ten best bits that we couldn't let you go without.

language and culture

#1: Cross-cultural & international design

The web is a truly global place—and that means your websites have to be, too. People from every corner of the globe are checking out *your* sites. The thing is, everyone has a different cultural, linguistic, and ethnic background—all of which might impact how they interpret your site's design. There are some things you should keep in mind when you are designing a site for an international audience (or an audience whose culture is different from your own).

Icons have different cultural meanings

Icons are cool, and can convey a lot of information in a little bit of space. But what an icon means to you might be completely different from what that icons means to someone in another country or culture:

In the U.S., the shopping cart is synonymous with shopping, and is, therefore, a great icon for "checking out" on a website





In many other parts of the world, shoppers bring their own shopping bags to the store. So a shopping <u>bag</u>, and not a shopping <u>cart</u>, might be a more appropriate metaphor for "checking out"

Different languages have different lengths

If you translate the content of your site into a variety of different languages—a process called **localization**—you'll find that phrases may take up a lot more space than they originally did. Take a look:

English

"Click here for current site news."

"Klicken Sie hier für gegenwärtige Aufstellungsortnachrichten."

Щелкните здесь для в настоящее время весточки места

If you originally design your site in English and then go to translate it to German, you're going to find that the phrases take up more space—throwing your carefully planned design into chaos. So what can you do? You either need to design your site so that an increased number of characters doesn't really have an impact on your layout, or you'll need to reformat your site after you translate the content into the target language. Either way, you can't ignore language lengths if your site is going to be translated.

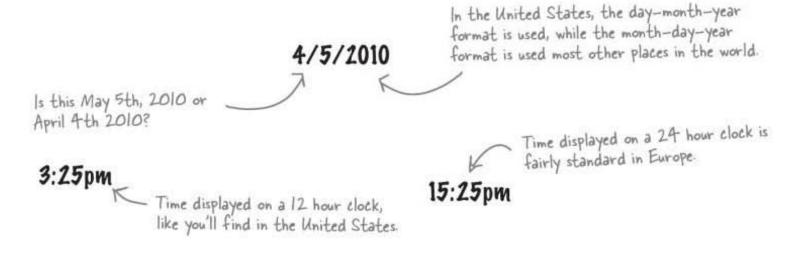
 Cyrillic (Macedonian, Russian, Serbian and Ukrainian, etc.)

German

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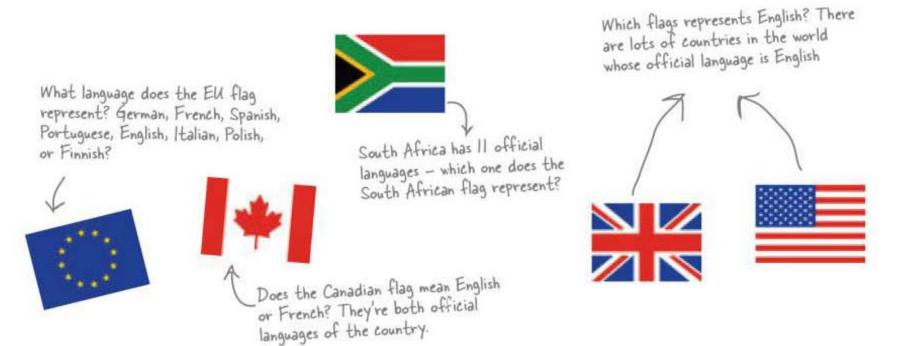
Is that the month or the year?

Even something as simple as how date and time are displayed can differ from country to country. If your site has the date or time formatted incorrectly for that national or cultural context, your users might get confused, or even miss an important event or deadline. Here are just a few date and time formats you'll want to think about:



Is that really the flag you want to use?

It's fairly common to see flag icons used to indicate language choice. English might be represented by the Union Jack, and French represented by the flag of France. The problem with this is that nationality (and flags) *don't represent language*. There are lots of people who don't live in France who speak French. So some users might feel frustrated or even alienated that your site equates their native language with some other country. Instead of using flag icons to indicate language choice, simply spell the language out in the actual language—English, Francais, Deutsche, etc.



#2: The future of Web markup

The web is constantly evolving. New markup and style specifications are being proposed, developed, and implemented by the **World Wide Web Consortium** (W3C)—all of which will have an impact on how web designers do their thing. Most notable are HTML 5 and XHTML 2.

HTML 5 vs. XHTML 2

Both HTML5 and XHTML2 are specifications currently being developed by the W3C. This often causes confusion, as many people believe that XHTML 1.x was the successor to HTML 4.01 (and that HTML is effectively dead). So what's the difference between XHTML 2 and HTML 5? XHTML 2 is pretty much the successor of XHTML 1.x—it's designed to be the web's general-purpose markup language, with a minimum of default features that are easy to extend using CSS and other technologies. The most important goal for the XHTML 2 working group is to further separate document content and structure from document presentation. To these ends, the XHTML 2 working group has completely removed elements such as basefont, big, font, s, strike, tt, u, small, b, i, and hr. The XHTML 2 group has also been less concerned with backward compatibility, which has led them to drop some of the syntactic baggage present in earlier incarnations of HTML. The result is a cleaner, more concise language... but one that won't work with old HTML (and some XHTML) web pages.

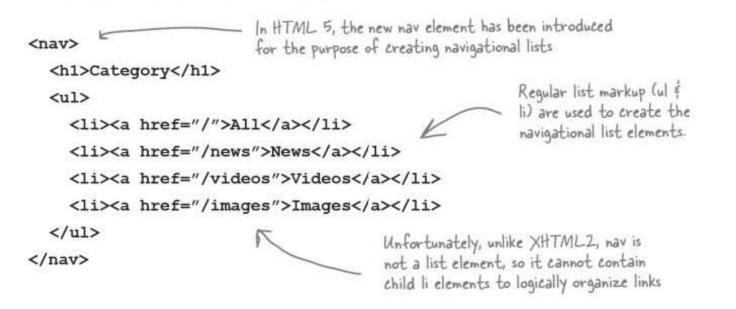
HTML 5 has taken a radically different approach. Instead of being a markup language for the web (as its ancestor HTML 4 was), HTML 5 is all about moving away from document markup and creating a language specifically for web applications. So a lot of the HTML 5 specification focuses on creating a more robust, feature-full client side environment for web application development by providing a variety of APIs (and elements that work specifically with those APIs). Examples include the 2D drawing API, which can be used with the new canvas element, and an API for playing video and audio, which can be used with the new video and audio elements.

Among many of the cool things you can expect in both HTML 5 and XHTML 2 are navigation lists. In XHTML 2, navigation lists look something like this:

```
Navigation is marked up using
the new nl element.
(nl>
(label>Category</label>
Navigation lists must start with a
child label element that defines the
list title.
(li href="/news">News
(li href="/videos">Videos
(li href="/images">Images
(li href="/images">Images
(li href="/images">Images
(li href="/images">Images
(li elements are used to markup links. Also new in
XHTML 2 is the ability to create a hyperlink
from any element using the href attribute.
```

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The whole point of navigational lists (especially in XHTML2) is to create simple, lightweight navigation markup that can then be styled using CSS.

When are they coming?

Neither XHTML 2 nor HTML 5 have been officially released by the W3C (though draft specifications and recommendations for both have been released). So when will you see official releases? Honestly, there's no good way to know. Because of the open and collaborative nature of developing these sorts of specifications, discussion and deliberation by the members of the individual working groups will go on until the job is done and everyone gets a chance to contribute. In the grand scheme of things, the release of the final specifications are not the issue. What is important is when (and how fast) browser developers completely adopt the new standards.

For a full run down on the HTML5 specification, check out http://www.w3.org/html/wg/html5/.

To explore the XHTML2 specification, visit http://www.w3.org/TR/xhtml2/ HTML 5 is really geared towards web applications. Red Lantern isn't interested in that, so I think we should focus on XHTML 2 in the future



One of our clients, the Red Lantern CEO.

#3: The future of CSS

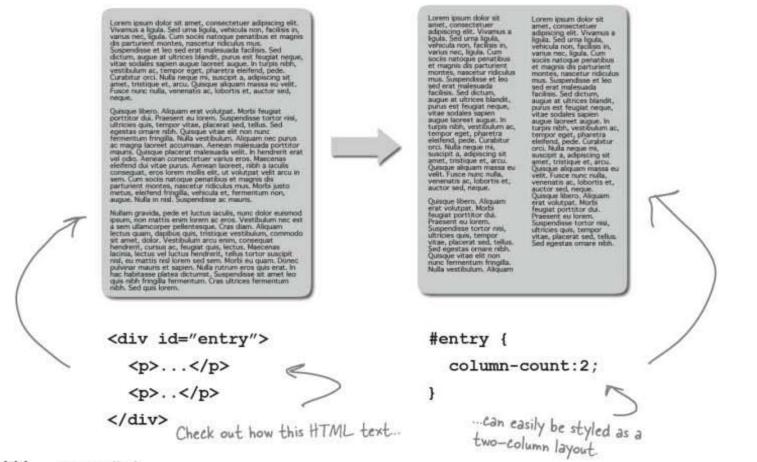
Just like HTML and XHTML, CSS is marching forward, too. While XHTML 2 and HTML 5 are cool from the perspective of web design, CSS 3 (the next version of CSS) is really the icing on the cake. One of the most interesting things about CSS 3 is that it will be released as a series of modules—instead of one big single release. This means that CSS can be updated faster, as modules can come out individually. Modules can be changed and updated independent of other modules, too, which means that you don't have to wait for the next "big" revision of CSS to get a particular update of your favorite module.

While there are lots of cool modules out there, one of the coolest is the multi-column module. It offers new CSS properties that let designers specify the number of columns an element should have. This not only allows designers to create far more print-looking documents, but it changes the process of creating multi-column layouts entirely.

The multi-column module includes the following new CSS properties:

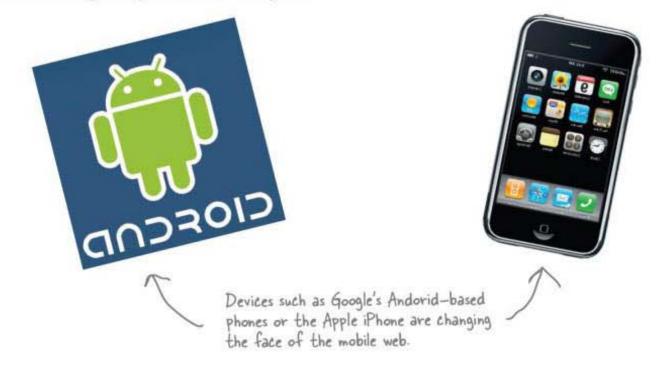
- column-count determines the number of columns into which the content of the element will flow.
- column-width describes the width of each column.
- column-gap sets the padding between columns.
- column-rule defines a border between columns.

For a full run down on all the CSS 3 modules, check out http://www.w3.org/TR/



#4: Designing for mobile devices

Over the past couple of years, design for mobile devices has become a really big deal. Not only are new mobile network infrastructures coming online that allow for faster data transfer, but new, and far more powerful, devices are hitting the market and becoming widely available and adopted.



If you are designing for mobile devices, there are some things you should think about:

- Even though many mobile devices now have a zoom and browse feature, you still need to remember that you are designing for a device with a screen that is far smaller than you are probably used to. While there is variation, the screen real estate of a mobile device usually comes in around 320 x 240. As a result, you are going to have to be incredibly frugal when designing your layout... there's just not a lot of screen real estate to work with.
- Many carriers still charge customers for the amount of data that's pushed to their phone. This means you need to create pages that have a very light footprint. Besides, mobile connectivity is still quite a bit slower than what you're used to on desktops or laptops. The smaller the file size of the page, the faster it will download.
- Above all else, test your design on as many mobile devices as possible (or the target device—which you can identify using audience research).

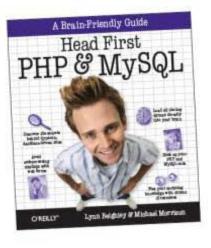
Create a stylesheet specifically for mobile devices using the CSS "handheld" media type. That way, you can format your page according to the limitations of the device.

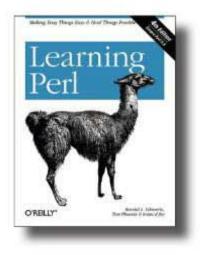
#5: Developing Web applications

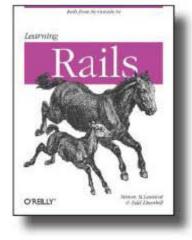
The web has developed to the point where you can not only create web pages, but you can also create **web applications**—web sites that act (in one way or another) like a desktop application. These web applications don't just display information, they actually **do** something.

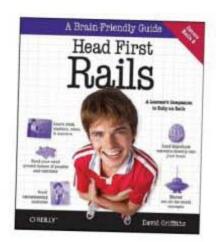
To create a web app, you'll need to work in a server side scripting or programming language. Options include PHP, Ruby on Rails, Perl, or ASP.NET. Each language has its own strengths and weaknesses, and with a little research, you'll find the one that fits your needs. The language you choose is determined by the server on which you'll be hosting your web app. Remember that some servers will support one web language but not another.

Remember, though, just because you may be coding a web app, you've still got to use good design principles. Here are a few books that can get you started with web apps:





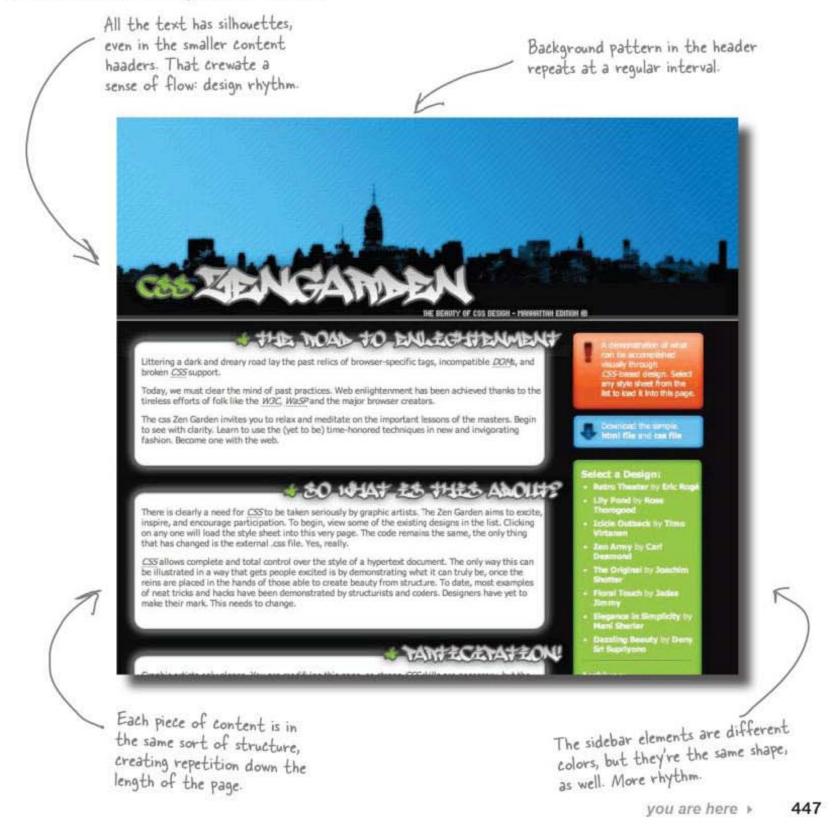




#6: Rhythm in your layout

Rhythm—the *repetition of design elements*—is a term often used in print design. But don't think rhythm is *just* about print design... it's just as important on the Web. Repetition allows you to create consistency, which contributes to the layout's visual logic. Repeat a common element or theme, and your site feels intuitive, more usable, and logical to users.

Let's take a look at how repetition can be used:



#7: Text contrast

Back in Chapter 7, we talked a lot about how to make content more scannable. But *scannable* text isn't necessarily *legible* text. Legible text is text that's easy to read because of the colors and contrast, not because it's easy (or hard) to understand.

There are a lot of things you can do to make your text more legible. Most important, make sure that you have a high contrast between the color of your text and the color of your background. If there isn't much contrast between your text color and your background color, users are going to find your text hard to read the text.

> However, the potential of the web to deliver full scale applications didn't hit the mainstream till Google introduced Gmail, quickly followed by Google Maps, web based applications with rich user interfaces and PC-equivalent interactivity. The collection of technologies used by Google was christened AJAX, in a seminal essay by Jesse James Garrett of web design firm Adaptive Path.

White text on a black background (called <u>negative</u> <u>text</u>) is very legible because there is a high contrast between text color and background color.

Black text on a white background (called <u>positive</u> text) is very legible because there is a high contrast between text color and background color.

The bursting of the dot-com bubble in the fall of 2001 marked a turning point for the web. Many people concluded that the web was overhyped, when, in fact, bubbles and consequent shakeouts appear to be a common feature of all technological revolutions. Shakeouts typically mark the point at which an ascendant technology is ready to take its place at center stage.

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When there isn't much contrast between the color of the text and the background color, the text is very hard to read.

#8: Match link names with their destination page

As we talked about back in Chapter 6, "signposting" is one of the guiding principles of usable and intuitive navigation design. There are lots more ways to give users a clear indication of where they are, where they can go, and a confirmation that they've arrived at the right place, though. One simple technique is make sure you match the name of a link with destination page's title. That way, users will immediately know they've arrived where they expected to be when they clicked on the link.



#9: Contrast is a fundamental layout device

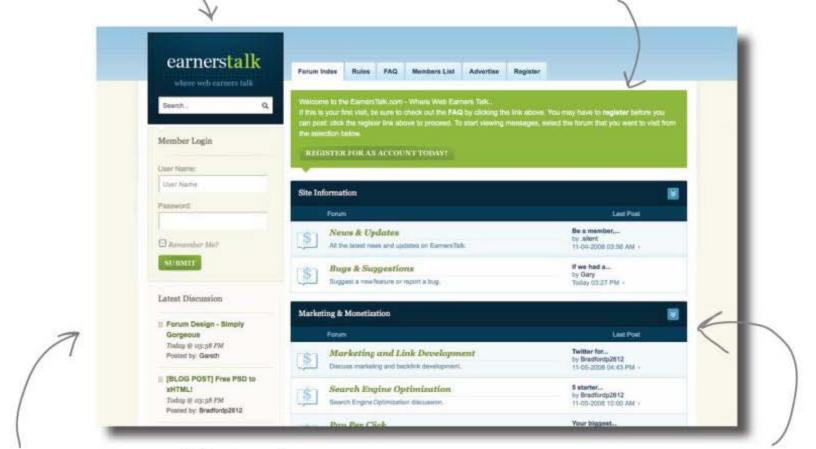
Contrast applies to more than just text and background color. **Contrast**, more broadly, is the juxtapositioning of dissimilar graphic elements. Sounds fancy, but it's not that difficult.

Contrast is commonly used to create emphasis in a layout. The idea is simple: the greater the difference between a design element and its surroundings, the more that particular element will stand out. In the context of layout, there are generally two things that create contrast: color and containers. When you put elements on your page in a container (callout, column, window, etc.), they stand out from the elements closeby. So when you apply contrasting colors to an element and its surroundings, that element will stand out.

You can use contrast to obviously identify different parts of your layout or focus the user's eye towards a particularly important aspect of your layout.

Both a container and color are used to emphasize the site's identity.

Both color and a container are used to focus the user's eye towards the site's important introductory information.



The contrast between the site's background color and the background color of the main content area focuses the user's eye towards what's important in the site.

A contrasting color is used to focus the user's eye on important headers.

#10: More tools for design

There are lots of great online and offline tools that will help you envision, create, and implement your design. We're not talking about visual markup editors like Dreamweaver here. Instead, we're talking about tools that actually help with the process of design. We've already talked about Kuler (a great little online app for creating color schemes), but there are so many more. Here are a couple of the good ones:

Pencil is an incredibly powerful little open source app that is designed specifically to create storyboards, interface prototypes and design diagrams. It comes in two flavors: a Firefox add-on and a desktop app (only Windows and Linux - sorry, no Mac version yet). Honestly, Pencil is pretty much an image editing application with features (such as built-in GUI stencils) geared specifically towards interface design and prototyping. Best of all, it's completely free. **http://www.evolus.vn/Pencil**

WriteMaps is a web application for building robust information architecture diagrams. On top of this, it allows you to share and collaboratively edit your IA diagrams with others. Like Pencil, WriteMaps is also free. http://writemaps.com

Web Developer is a Firefox add-on that puts a host of web development and testing tools at your fingertips. With it, you can directly edit the CSS of a currently displayed web page, display all of a sites style sheets by media type, outline all block level elements in a page, automatically resize the browser window, and directly edit the markup of a currently displayed web page. http://chrispederick.com/work/web-developer/

CSSTidy is an open source desktop application (available for Windows, Linux, and Mac) which parses and optimizes CSS. It can easily reduce the size of your CSS by 25%—which is especially good if you are obsessed with optimization or are designing for a platform where small file size matters (like a mobile device). http://csstidy.sourceforge.net

Firebug is an open source (and free) Firefox extension, much like Web Developer, that puts a wealth of web design, development, and testing tools at your fingertips. With it, you can inspect and edit markup and CSS, view a page's various CSS containers (box model), view a page's response time (download time) broken down by file type, debug and execute JavaScript on the fly, and inspect JavaScript performance (among many other things). http://getfirebug.com/





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