A Brain-Friendly Guide

Head First Web Design



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.



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.

O'REILLY*

Ethan Watrall & Jeff Siarto

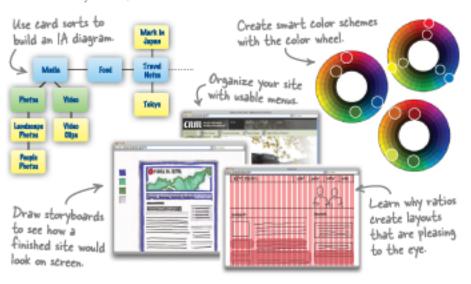
Head First Web Design

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

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Head First Web Design

by Ethan Watrall and Jeff Siarto

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Series Creators: Kathy Sierra, Bert Bates

Series Editor: Brett D. McLaughlin

Editors: Brett D. McLaughlin, Louise Barr

Design Editor: Louise Barr

Cover Designers: Louise Barr, Steve Fehler

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Ethan's daughter, Taylor





Jeff's Parents -



Ethan's son, Sam

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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 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.

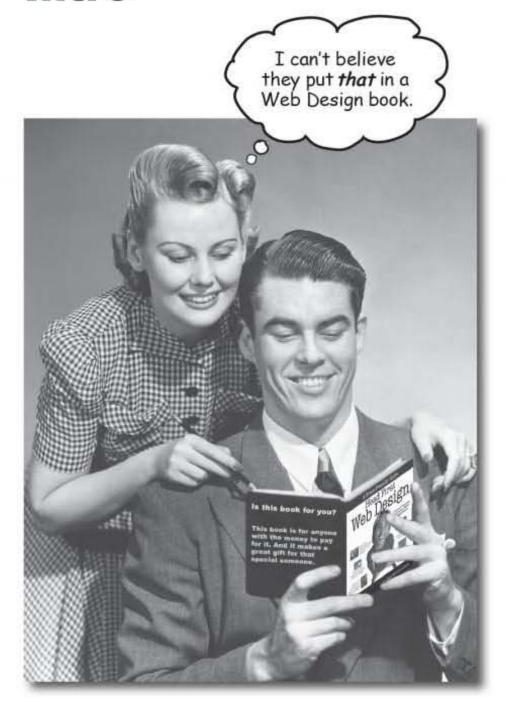
When he's not being professorial, he's a world class comic book nerd (Killowog is so his favorite Green Lantern), a sci-fi dork (he'll argue to the grave that Tom Baker is the best Doctor ever), and an avid player of all sorts of games (digital, board, and tabletop). Ethan's digital alterego can be found 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

Intro



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

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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.

this book is not for you.



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

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intro

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?

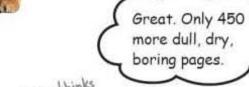
Neurons fire. Emotions crank up. Chemicals surge.

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 (††↓↓←→ ←→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 THIS is important.



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:

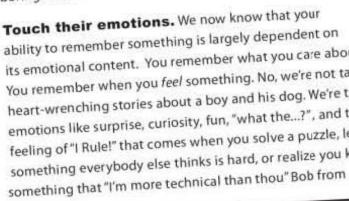
Make it visual. Images are far more memorable than words alone, and make learning much more effective (up to 89% improvement in recall and transfer studies). It also makes things more understandable. Put the words within or near the graphics they relate to, rather than on the bottom or on another page,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



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.

> nobody considered I'd be using a screen reader for this site.



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

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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.

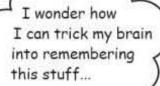
So just how DO you get your brain to treat Web Design like it was a hungry tiger?

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, 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.

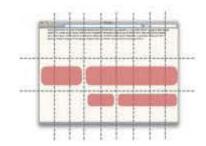
We used **multiple learning styles**, because you might prefer step-by-step procedures, while someone else wants to understand the big picture first, and someone else just wants to see an example. But regardless of your own learning preference, everyone benefits from seeing the same content represented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

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.

Orink 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.

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

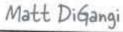
Sarah Collings



Johannes de Jong



Corey McGlone





Pauline McNamara





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.





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Ethan's friends, family, and colleagues:

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1 building beautiful web pages



Beauty is in the eye * * of your user

I know he said you're just another boring one-column waitress, Mom, but I think you're the best... you're always paying attention to your users. What else could anyone want?



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.

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.

I've bought a kiosk at an international business conference in a week. I don't know a thing about web design, but I know you do. So you need to design a really impressive new website as quickly and efficiently as possible. Think you can do that?





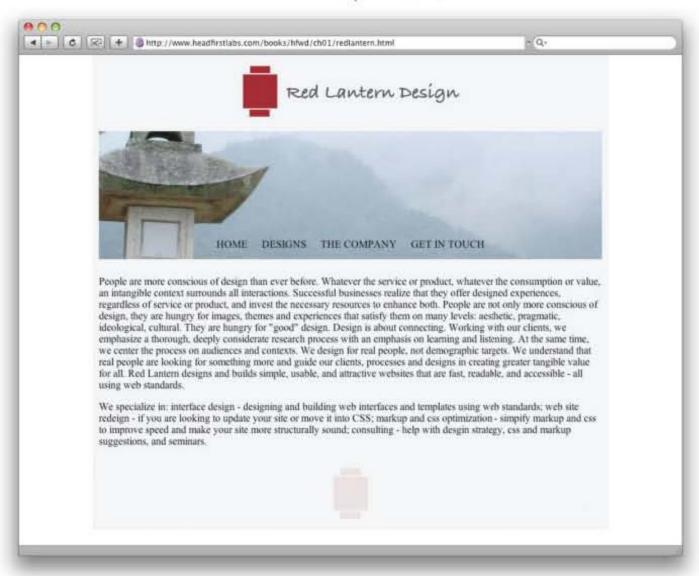
Well, sure you can. Where do you think you should start?

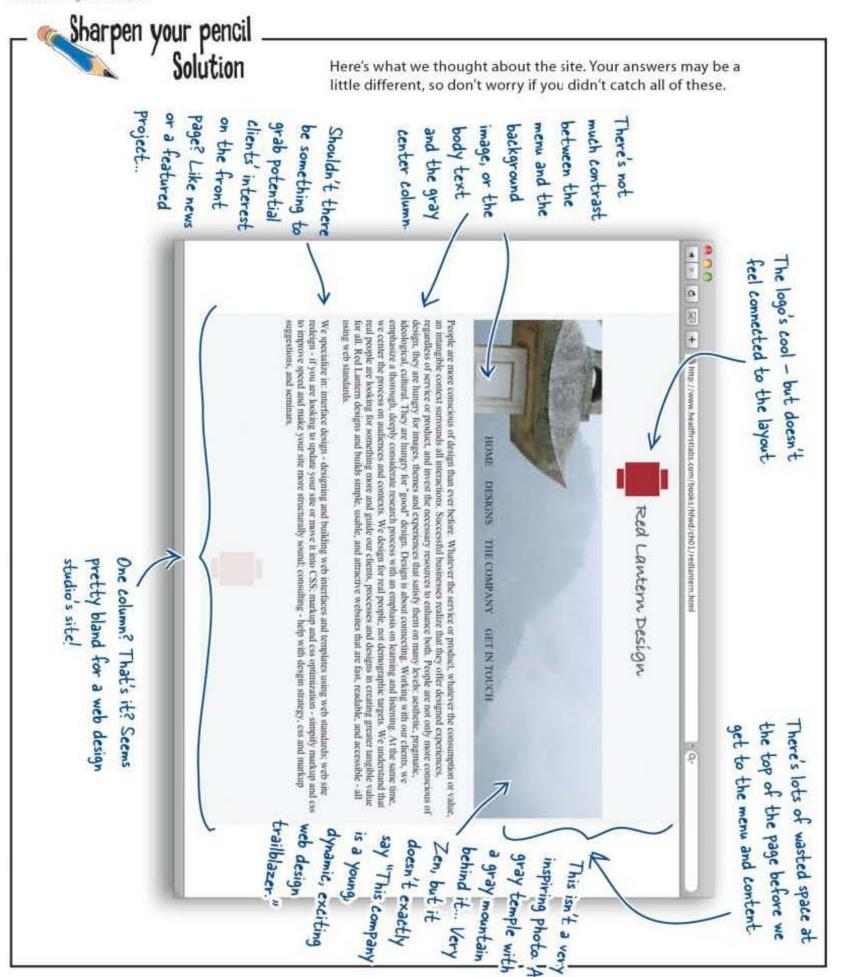


Here's the current Red Lantern site. Take a look at the screenshot and, using your web design expertise, annotate it. Note what you like. What do you dislike? Do you see any problems?

Jane loves Japanese culture.

That's why she bought the company. She loved the name.





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?

Uh, yeah, so uh, I know where I'd start. I, uh, know HTML. So I'd start with the code. Get to it right away. Then I'd work up some, uh, CSS and uh, that's it! Okay?

Joe Blow thinks he's a fancy schmancy web designer. What do you think?



Sharpen your pencil

Is Joe right? Is there anything else to do? Where would **you** start?

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?



00

"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?

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

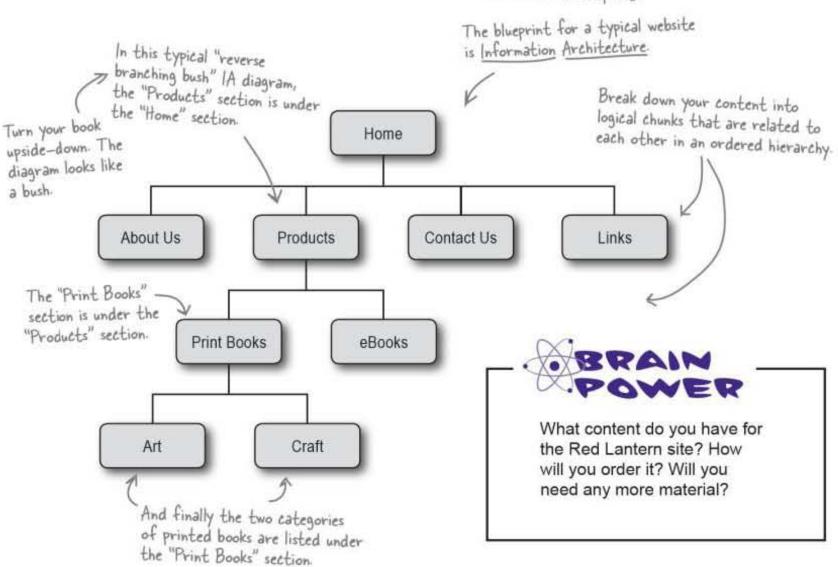
So building a website *is* a lot like building a house. If you start with a blueprint, you'll know exactly where you're headed at every step: foundations, load-bearing walls, and so on. For a website, you use **Information Architecture** (or **IA**). IA is the process by which you break your website's 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.

if tion

Sers go Architecture for your house

Architecture for your house starts with a blueprint.





Start the Information Architecture process by asking Jane about the content she wants for the site.

Here's a memo from Jane telling you what sections she wants on the site. Write down a 1 or 2 word description for that "chunk" of content.



MEMO

From: Jane

Subject: Site content

Let's have a section of the site where we put news items and updates about Red Lantern.

We definitely need a section of the site where we can show off all of the awesome work we're going to do.

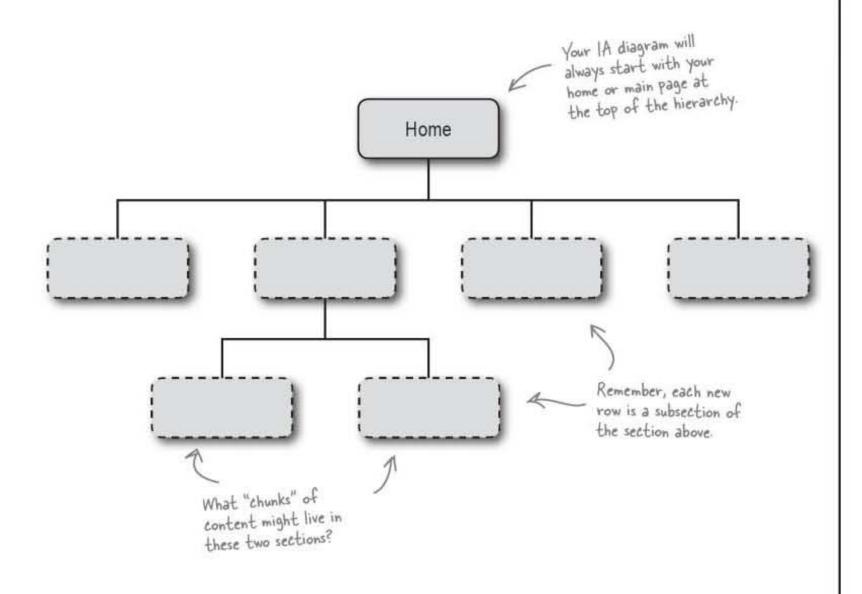
The site needs a contact page. How would we ever get clients without a contact page?!

I think it would be good to have a section of the site about the company—what we do... that kind of thing.

We need to make sure they know we do consulting and web design!

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		•						•	•		•					0			6						•			•		•		•					•	•	•			

Once you've worked out the sections of information for the Red Lantern Design site, you can start to build your Information Architecture diagram. Fill in the spaces provided with your individual sections from the facing page.





You started the Information Architecture process by asking Jane about the content she wants on the site.

Jane let you know what she thought the sections should be. Here are some possible 1 or 2 word descriptions for each "chunk" of content.



MEMO

From: Jane

Subject: Site content

Let's have a section of the site where we put news items and updates about Red Lantern.

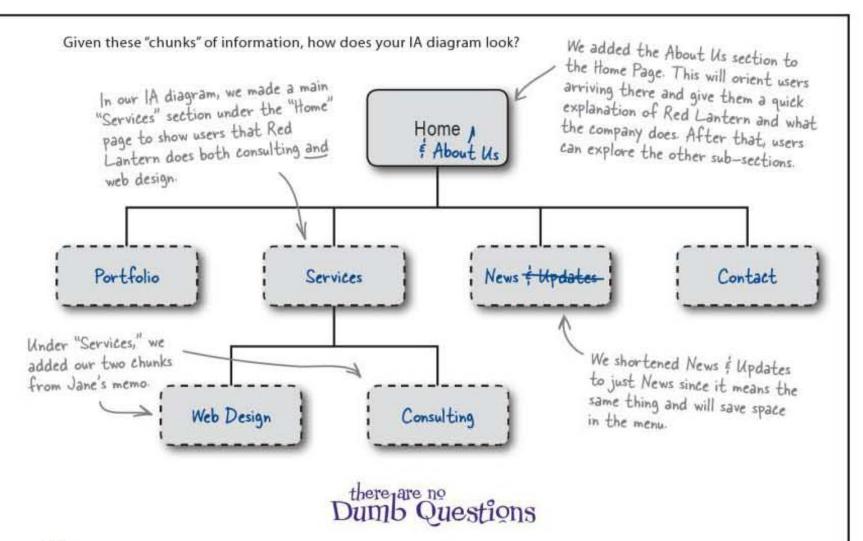
We definitely need a section of the site where we can show off all of the awesome work we're going to do.

The site needs a contact page. How would we ever get clients without a contact page?!

I think it would be good to have a section of the site about the company--what we do...that kind of thing.

We need to make sure they know we do consulting and web design!

•••••	News & Updates
	Portfolio
*****	Contact
	About Us
	Consulting, Design



O: Do IA diagrams always have to look like a reverse branching bush?

A: No, though the reverse branching bush is probably the most common way IA diagrams are done. Honestly, any kind of diagram that accurately and clearly represents the sections and subsections of content (and the hierarchical relationship between them) works just fine.

Will the people I design sites for always be as clear as Jane about what sections they want?

A: Yes... and no. You'll be amazed at the extra details about sections and design ideas that come from just talking to people. Just because they may not know the names that sections on a site are commonly called, doesn't mean they don't have a clear idea about what they want their site to contain. Then it's up to you to organize the sections logically and hierarchically.

Couldn't I just skip this part of the process? This IA diagram and the one on page 7 look pretty similar...

A: No! Don't skip IA, as it can often determine parts of the design when you come to layout the site. Besides, although there are some similarities of structure, every site is different, and some sites will have a lot of subsections. The more content you have and the deeper your IA diagram, the more complex your navigation system will be. You'll not only need top level navigation, but second tier navigation as well. But don't worry, we'll cover dealing with IA in a lot more detail in Chapter 3.

Is an IA diagram just like a sitemap? The "chunks" just look like links...

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.

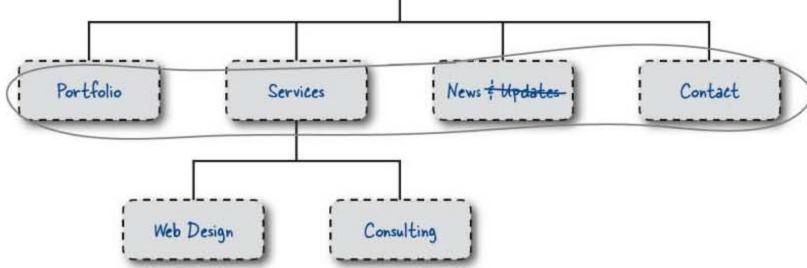
Information Architecture isn't just important for organizing your site's information; it's a big deal for your navigation as well. So, when it comes to building your site's navigation, keep your IA diagram close at hand.

Petermine your Top Level Navigation

Top level navigation is usually the most prominent navigational element—the tabbed nav bar at the top of the page, the vertical nav menu in a secondary column, etc. More often that not, your top level navigation links to those sections one tier below the home page in your IA diagram.

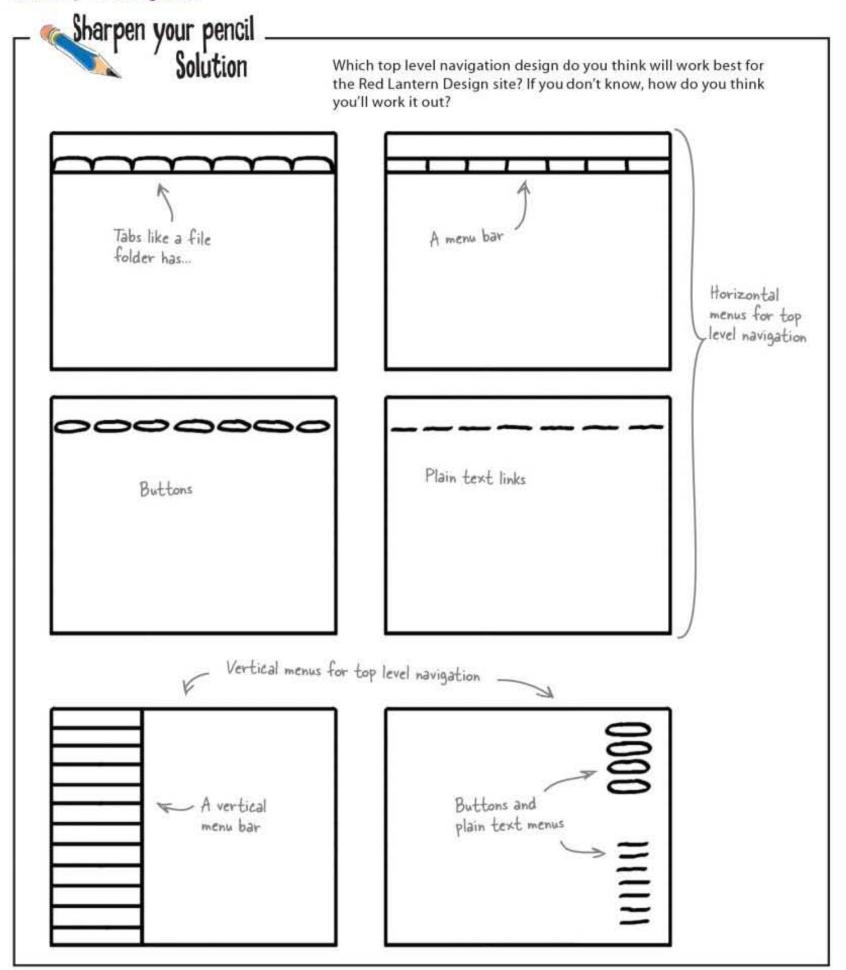
Home About Us

Because you moved the "About Us" section to the home page of Red Lantern Design's site, it's easy to circle the top level navigation elements in your IA diagram. But how will you style the menu?



Sharpen your pencil

Draw a few sketches of the kinds of menu you're already familiar with and start thinking about which menu type would suit the Red Lantern site.



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.



styled with CSS

to this site.

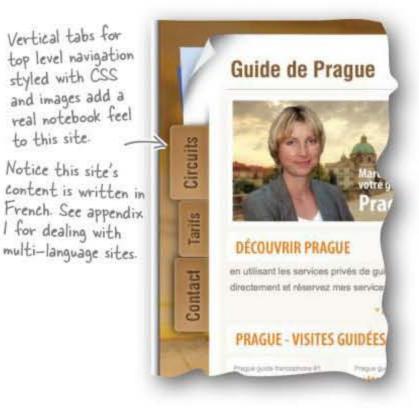
Vertical menu



Vertical menu for top level navigation.

Back when people first started adding menus to their sites, this was the most popular type of menu.

Vertical tabs



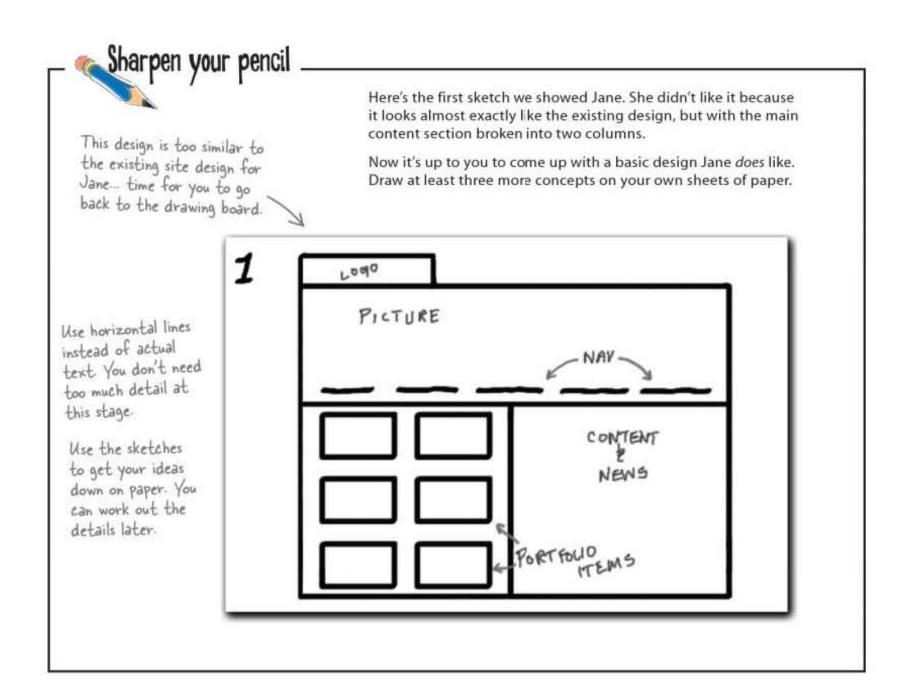


Chapter 1

Sketches keep the focus on functionality

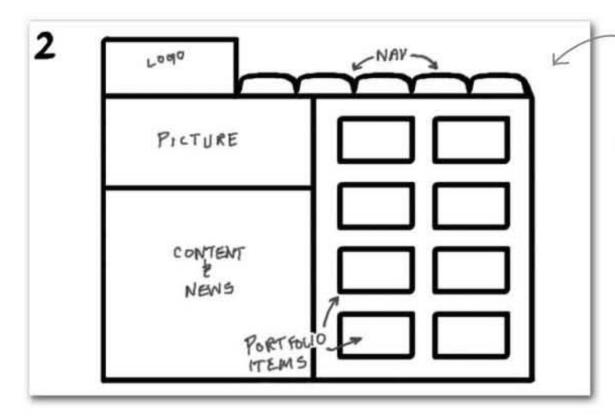
Your first sketches should be black and white and drawn on paper. That way, Jane will be completely focused on the basic layout of the design (instead of what color the background of the page is or how great her logo looks placed over that image or... you get the picture).

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.

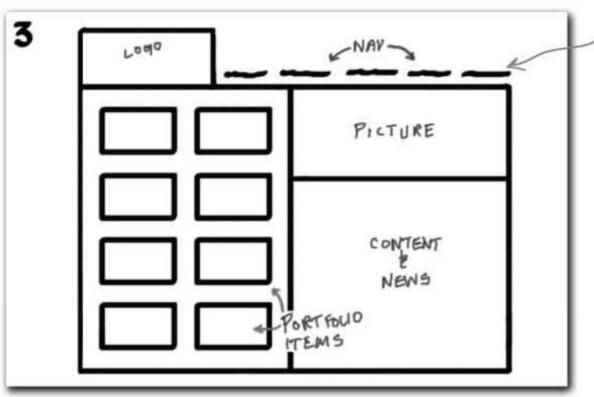




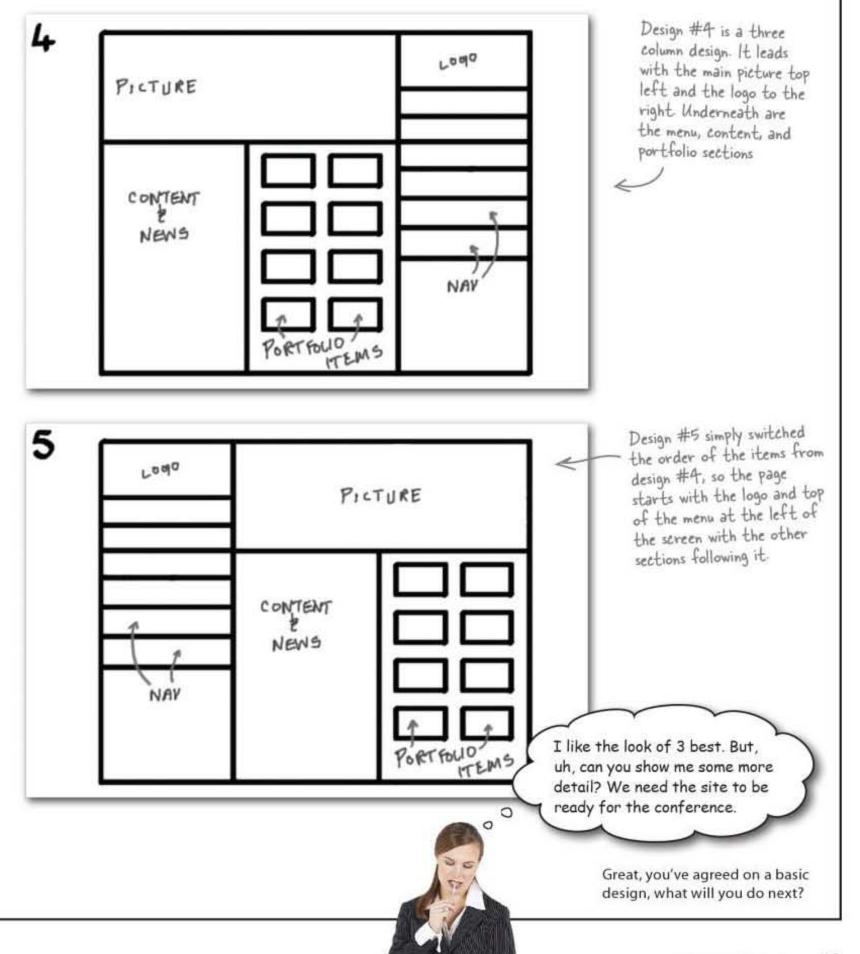
Basic black and white sketches keep the focus on the main layout. It's time to show the basic layout concepts to Jane. Which will she choose?



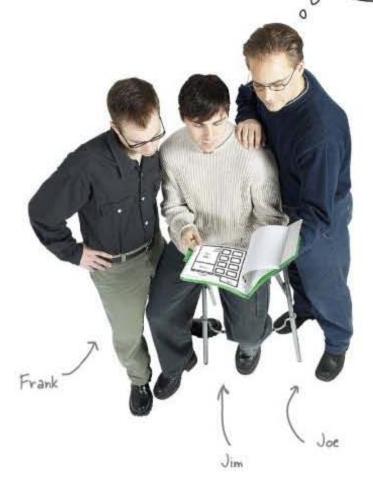
Design #2 has horizontal tabs for the menu. Under the logo and menu, there's space in the two column design for a picture and the news section beneath that, while on the right, are small thumbnail images of sites Red Lantern's designed.



Design #3 has a plain textual menu in place of the tabs, and it's switched the position of the portfolio and content sections.



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?

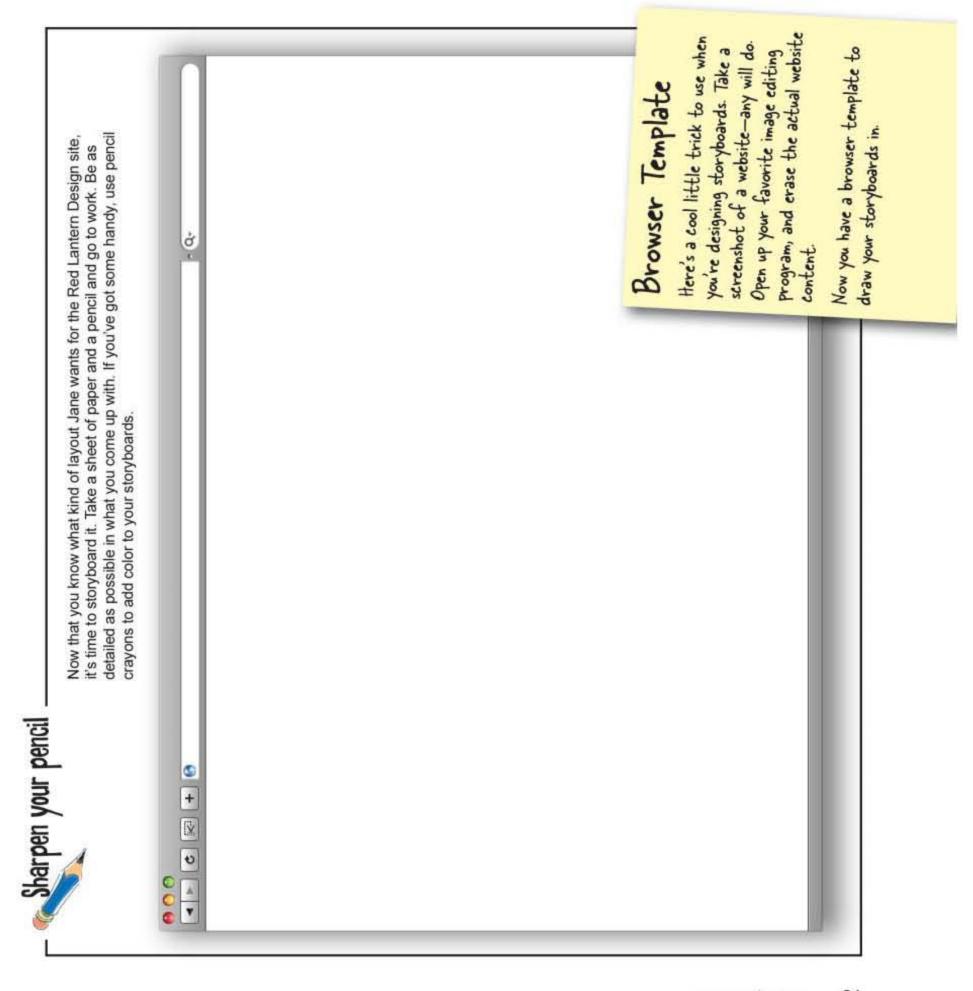
Frank:

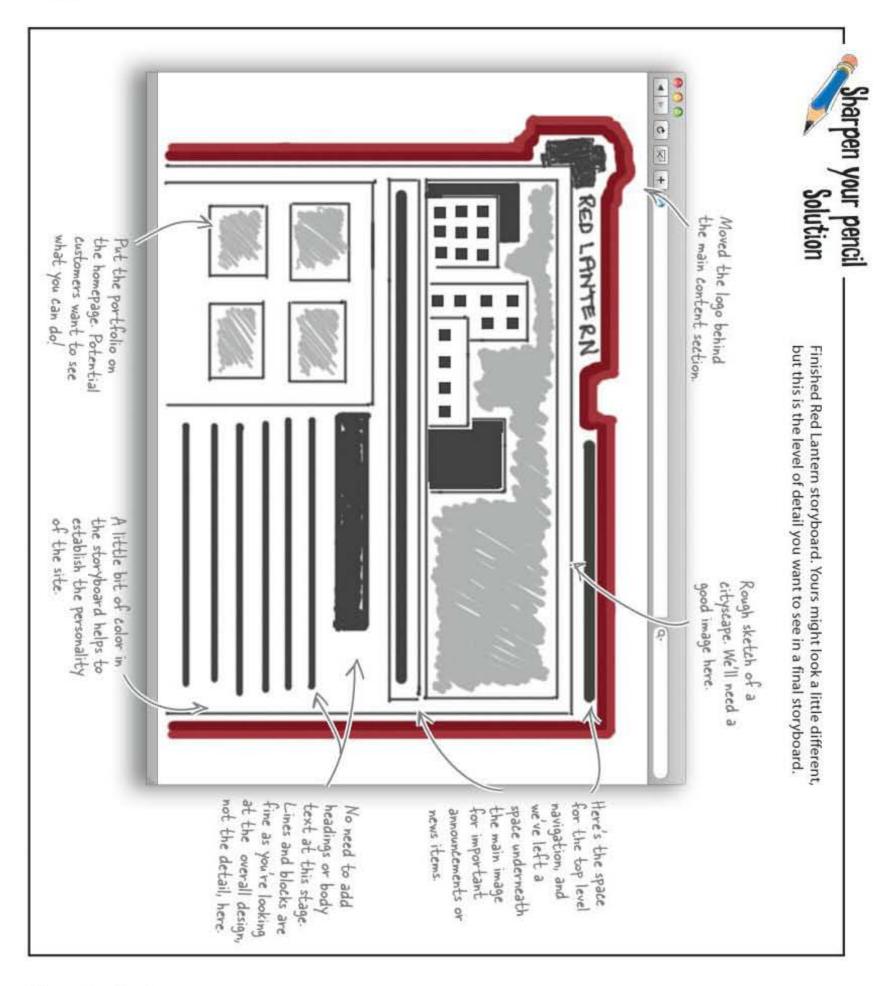
Jim:—No. We're going to do a ton, all in different colors, and show them all to Jane like we did with the first sketches, right?

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.







Tonight's talk: Pencil and Design Program discuss Storyboards

Pencil:

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...

Design Program:

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, Pencil?

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?



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.



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.



Ready 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.

```
/* Red Lantern redesign */
                      <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
                              "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
body
                      <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  margin: 0;
  padding: 0;
                      <head>
  background: #7a212
                          <title>Red Lantern Design</title>
  font-family: Helve
  font-size: 62.5%;
                              <meta http-equiv="Content-Type" content="text/html;</pre>
   color: #333;
                      charset=utf-8"/>
                              <link rel="stylesheet" href="stylesheets/screen.css" type="text/</pre>
                      CSS"
                      media="screen" />
 h1, h2, p, ul, li
                     </head>
    margin: 0;
    padding: 0;
                     <body>
                         <div id="masthead">
                             <h1><img alt="Red Lantern logo" src="images/rl_logo.png" /></h1>
                             ul id="nav">
     font-size: 1.46
                                 <a class="active" title="Red Lantern home"</li>
     line-height: 1
                     href="index.html">Home</a>
                                 <a title="Design services"</li>
                     href="services.html">Services</a>
      list-style-ty
                                 <a title="Our work" href="portfolio.html">Portfolio</a>
                     li>

    title="Contact Red Lantern"

    Repeat yourself
                                     ml">Contact</a>
       Remember, you need HTML for
     every page in your IA diagram.
       Once you've downloaded it,
       duplicate the code and name the
                                      header">
                                      alt="tokyo buildings" src="images/tokyo.jpg" />
        files accordingly. You'll link them
        together in the end.
```



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.



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.

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

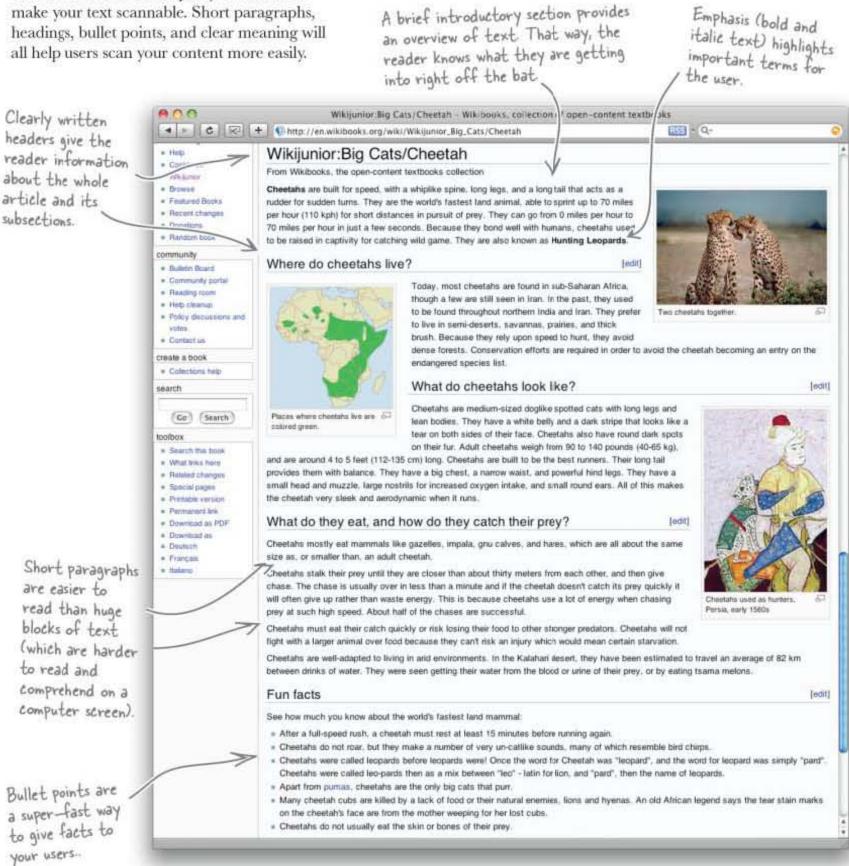
Instead of reading your content from left to right, beginning to end, like a book, users scan the text for keywords and concepts—to give them an idea about the contents of the page.

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**!



What makes text scannable?

There are several techniques you can use to make your text scannable. Short paragraphs,





Here's the text Jane just sent over again. Rework the copy so that follows the scannability checklist.



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

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.

You don't have to use them all, just the ones that work for your content.	Clearly written headers Clearly written headers Small (ish) paragraphs Use bold and italics to emphasize important words or phrases. Use lists (ordered or unordered) for appropriate content.
•••••••••••••••••••••••••	



You edited Jane's text, following the 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.



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

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.

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

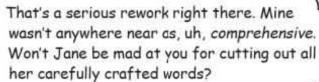
Red Lantern is a small web design and consulting firm specializing in standards-based web design and development. Our goal is to build simple, beautiful webpages that make your information easy to find and your users happy.

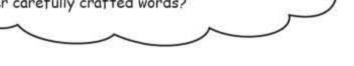
If you or your company are interested in working with us, please check out our portfolio of design and branding work and contact us with your project details. We look forward to hearing from you and making your presence on the web a little simpler and easier to find.

View our full portfolio

Contact Red Lantern

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





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

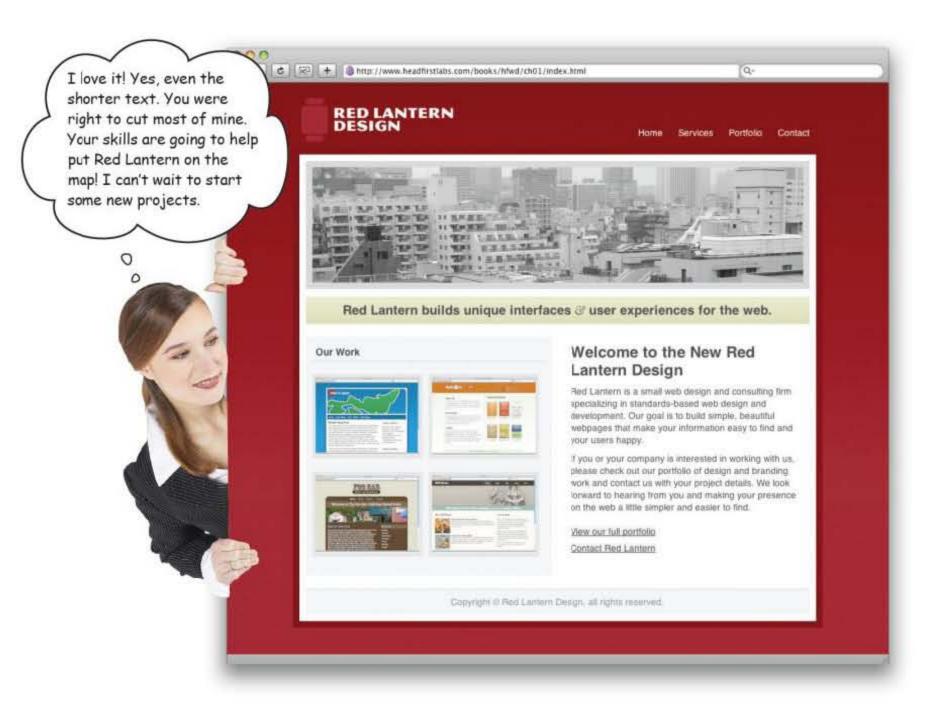
It tells users exactly what Red Lantern does, and what they can expect from working together. We edited out a ton of content—long words, sentences that you had to read three times to understand, and so on—that would have clouded this simple message.

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 Design 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





Paper covers rock *



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.

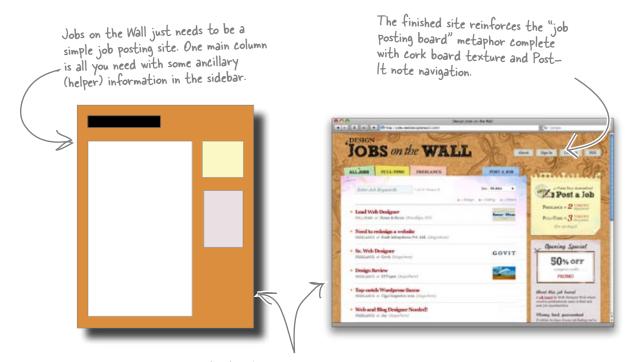




Think before you code

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).



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.



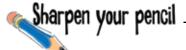
IconBuffet creates and sells icons for use in web design and other interface development. Icons are featured throughout and a takeout container is used to reinforce the site's name.

IconBuffet's visual metaphor is subtle-but the design reinforces the clean, simple icons they produce, and their logo is great literal interpretation of the site's name.

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.





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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Sharpen your pencil Solution

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.



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.

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.



A multi-column layout similar to that of a news paper. Also, the columns are staggered, with some spanning the width of two, others just one.

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 back through later and eliminate any that obviously won't work.

Food page

The brainstorm list can include design ideas, content considerations, site sections and even color and imagery.

Write down everything that comes to your mind. Don't judge an idea until the end.

map of Japan Food: Sushi, sashimi, fish, Japanese pancakes HiroShima The Golden Palace
Japanese flag Travel journal/blog Photo SlideShow



Do a guick 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



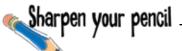
Make layout decisions based on content. The more columns you have, the more space you have to fill. Also remember that whitespace is important. You don't have to fill every available pixel.

Pesign layouts based on content



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.



Write down two possible central theme's for Mark's site. Once you've done that, write down several design elements (remember, these can be fonts, colors, logos, icons, interface elements, etc.) that will contribute to the site's visual metaphor and reinforce the site's theme.

0	Central Themes	
••••		
8	Interface Elements	

Sharpen your pencil Solution

Write down two possible central theme's for Mark's site. Once you've done that, write down several design elements (remember, these can be fonts, colors, logos, icons, interface elements, etc.) that will contribute to the site's visual metaphor and reinforce the site's theme.

It's ok if you came up with something different. We're just trying to get you to think!

Central Themes

Japan travel diary A travelers guide to Japan

We want to emphasize the trip Mark took. This could also turn out to be a great resource for others planning a trip or traveling to Japan.

Interface Elements

Header with large image

Map of Japan

Mark took great pictures. We

need to show them off!

Map of Japan's geography is very
unique.

One main navigation

Single sidebar

Simplicity is key. A few main
nav items is all we need.

Again, simplicity. We really
don't have enough content
to fill multiple sidebars.

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 grid-like, multi-column layouts of your typical daily paper.





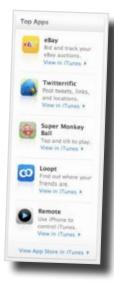
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The **footer** portion of your layout can hold anything from copyright information to duplicate navigation links. Users will often look to this section for links or content that can't be located anywhere else on the site.

Offices ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According ## According to Prices ## According

Sidebars 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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there are no Dumb Questions

O: Do I need to use all these for every site?

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Nope, these are just examples of the general page elements you might end up using. Remember, each website is different. In all cases, your content (and your theme) will determine what page elements you end up using in your final layout. In fact, if you try to use all of these page elements, you are going to end up with a design that doesn't make any sense to you (or to your users).

Oces every site need a theme and visual metaphor?

A: The answer is yes and no. Not every site needs a gorilla-themed metaphor or a snazzy newspaper layout to reinforce it's content. But in most circumstances, your site is going to have some sort of theme, even if it is only expressed through the content and writing on the site. Remember, content is a design element and can be used just like whitespace and sidebars.

What if I don't start with any content? Or I want to just start a blog.

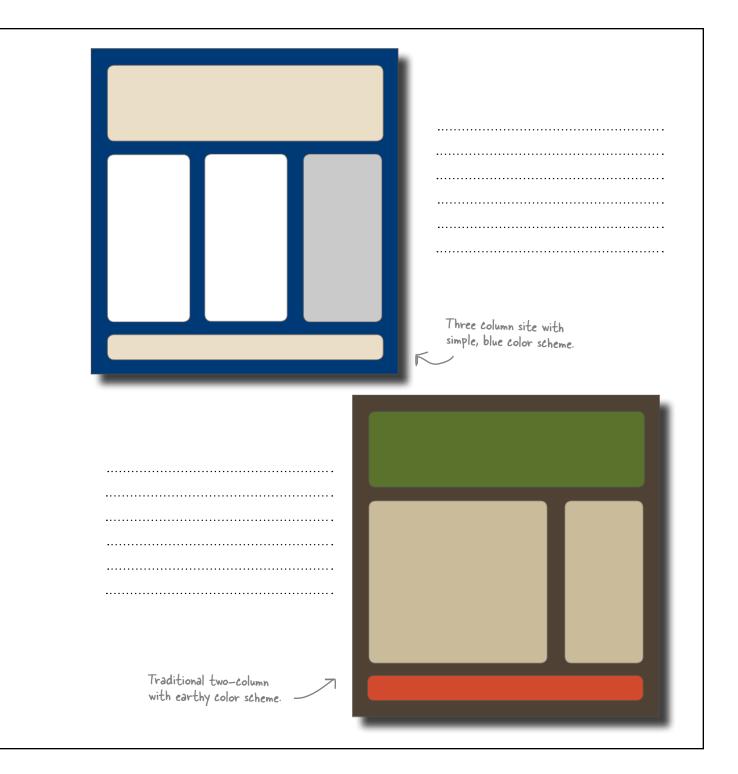
A: Even if you don't have any content (images, articles, videos, etc.) initially, you still need to make a conscious decision about the overall theme of the site. If you're starting a blog, what kind of topics are you going to write about? If it's more of a journal, well then there's your theme. All websites have a theme, even if it's just about you.

Now we can get back to Mark's site. Which visual metaphor will work best for his Japan theme? Let's take a look at the color and layout choices...



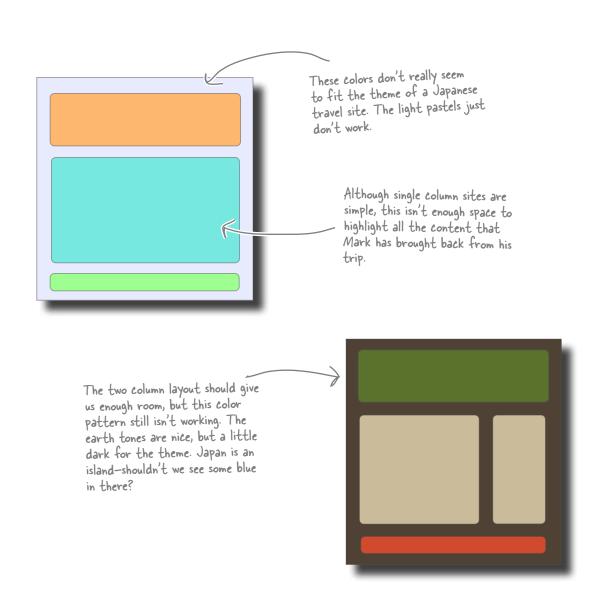
To finalize the visual metaphor for Mark's site, we need to look at some different color and layout combinations and see how they will work with our content. Check out the following layout and color mockups and write down your thoughts on how well each of them represent Mark's content. Remember to think about the themes and visual elements you identified in the previous exercise.







To finalize the visual metaphor for Mark's site, we need to look at some different color and layout combinations and see how they will work with our content. Check out the following layout and color mockups and write down your thoughts on how well each of them represent Mark's content. Remember to think about the themes and visual elements you identified in the previous exercise.



A large map of Japan would look really good in the header. When a visitor comes to the site, there would be no doubt as to the theme and content of the page.

This layout/color combination gives
us all the room we need to display
Mark's content along with a simple
color palette that emphasizes
blue-representing the Japan as an
island nation.

The blue works well with the theme. The other colors are more neutral and will allow us to be creative when placing visual elements.

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.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
      "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>
/>
</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">
             <l
                    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.
             </111>
      </div>
      <div id="footer">
             Copyright © Mark in Japan, all rights reserved.
      </div>
</div>
</body>
</html>
```

XHTML Strict DOCTYPE

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;
                               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 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.
}
```





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.

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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.

Don't be afraid to write on your boards. Marking them up is one of the advantages of testing designs on paper.





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?



Pon'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.

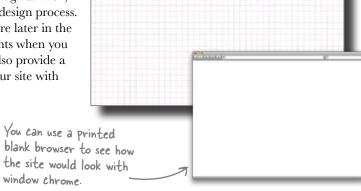


Creating a storyboard

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:

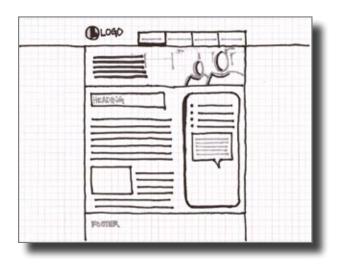
• Find some paper and make your grid

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.



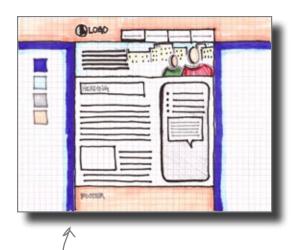
Sketch out your design

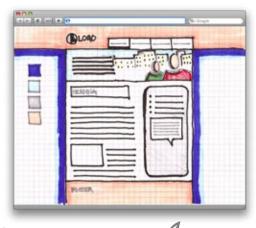
Here is where the rubber hits the road. Draw out your site's interface in as much or as little detail as your project needs. All of the site's text can be replaced by lines or a box with the words "text appears here." The point of the storyboard is not to see the actual content—it's to play with and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



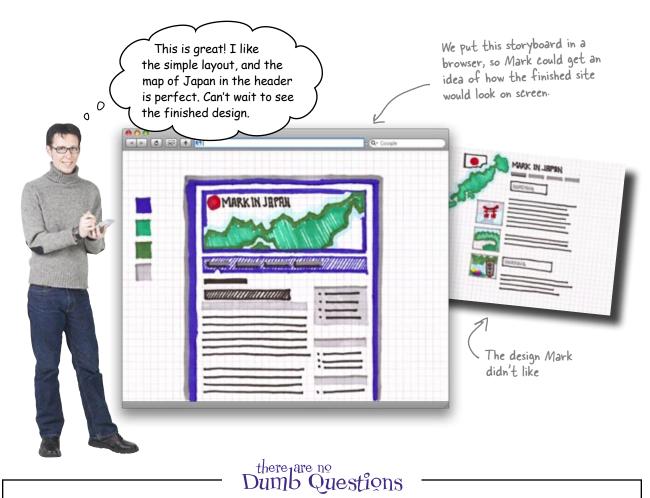


there is what the storyboard looks like with browser chrome.

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).



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



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.

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.

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 Design 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.

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



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



"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

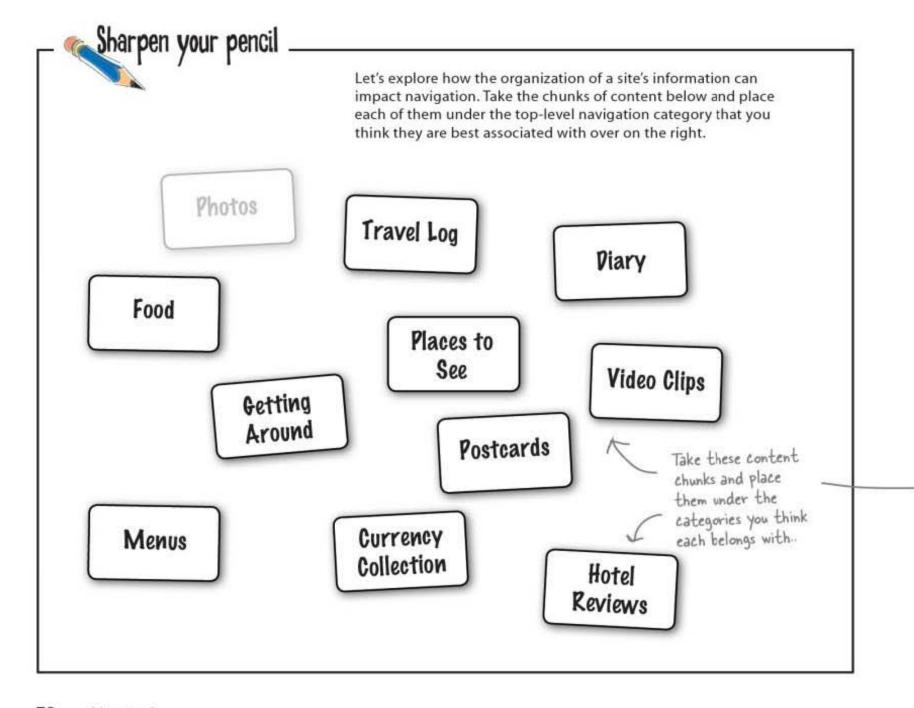
On his voyages throughout Japan, Mark collected a lot of material. He took pictures, kept a daily journal, collected items (maps, travel booklets, trinkets, etc.), and even managed to take some video. The big question is, how should all of this content be organized into his new design?

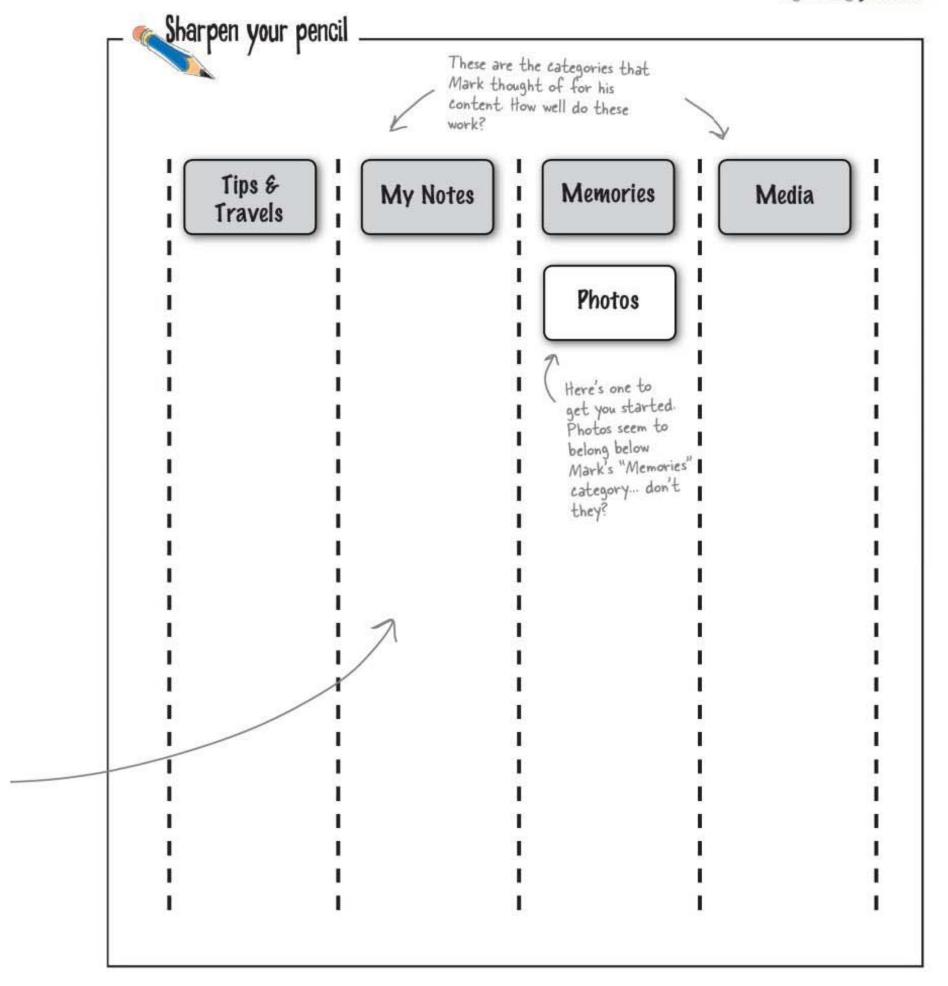


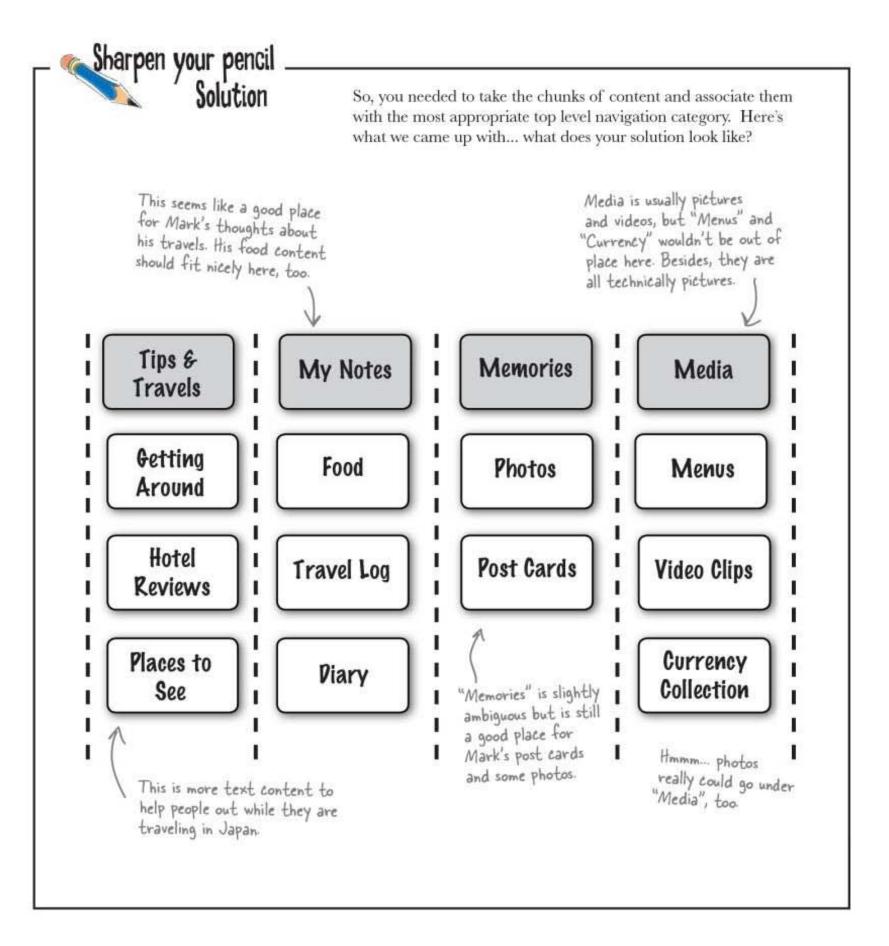
Organize your site's information

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.







These categories suck.
Why aren't menus under
Tips & Travels?

Ambiguous navigation confuses users

Thinking about what to name your main navigation categories is important and should not be a last-minute decision or an afterthought. Confusing categories will make it difficult for your users to find the information they're looking for and make your site look unorganized and haphazard. Let's take a closer look at Mark's top level categories:



"My Notes" doesn't really tell me what I am going to find on this page. What are the notes about? Travel? Food?

Tips & Travels

My Notes

Memories

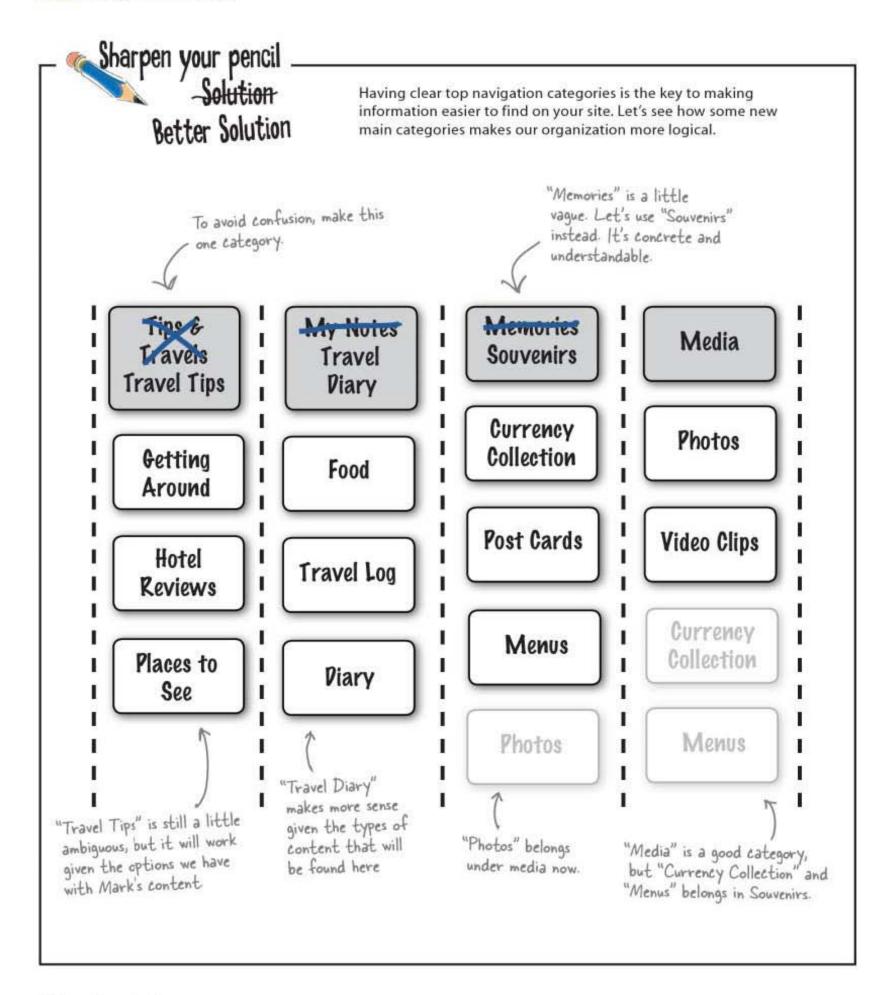
Media

Mixing categories, especially unrelated ones, makes navigation confusing. Just because the category sounds good, doesn't mean users will understand it.

What can the user expect to find in "Memories"? Photos? Video? Shouldn't those be under "Media"? "Media" isn't a bad choice for a category, but when you put your photos under "Memories," "Media" suddenly gets sort of confusing.

Sharpen your pencil

Go back to your solution on the previous page, and write in better, clearer category titles. You may also need to move around the chunks of content to match your new categories.



Dumb Questions

O: 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.

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.

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.

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.

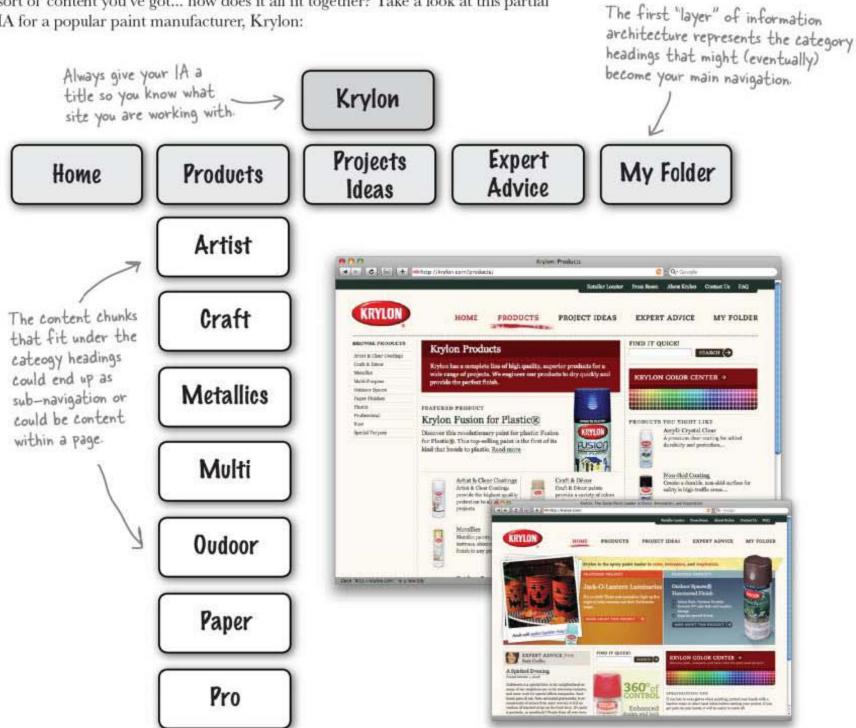
Joe: A what?

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

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:



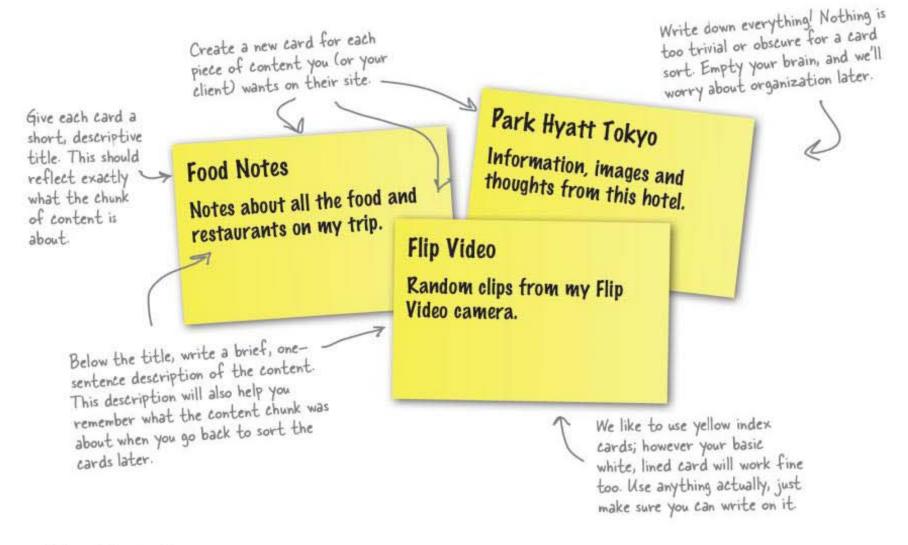
IA-The card sorting way

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.

To run a successful card sort, you need:

- A stack of 3x5 cards
- A pen and a clear table (or the floor)
- A solid idea of your site's content





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?

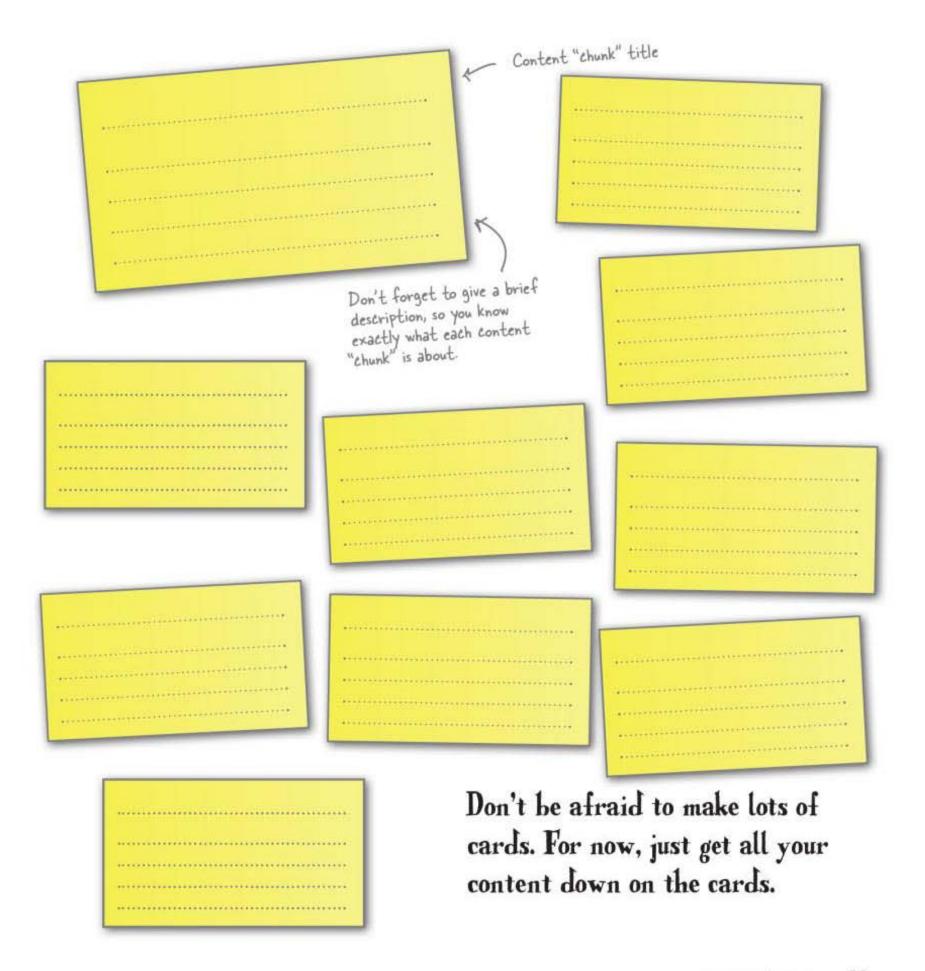
Card Sort: Not always, but they're good to have especially if you have lots of cards. You don't want to run into a situation where you're trying to remember what you meant when you wrote down a content chunk. More of the getting your ideas down on paper methodology.

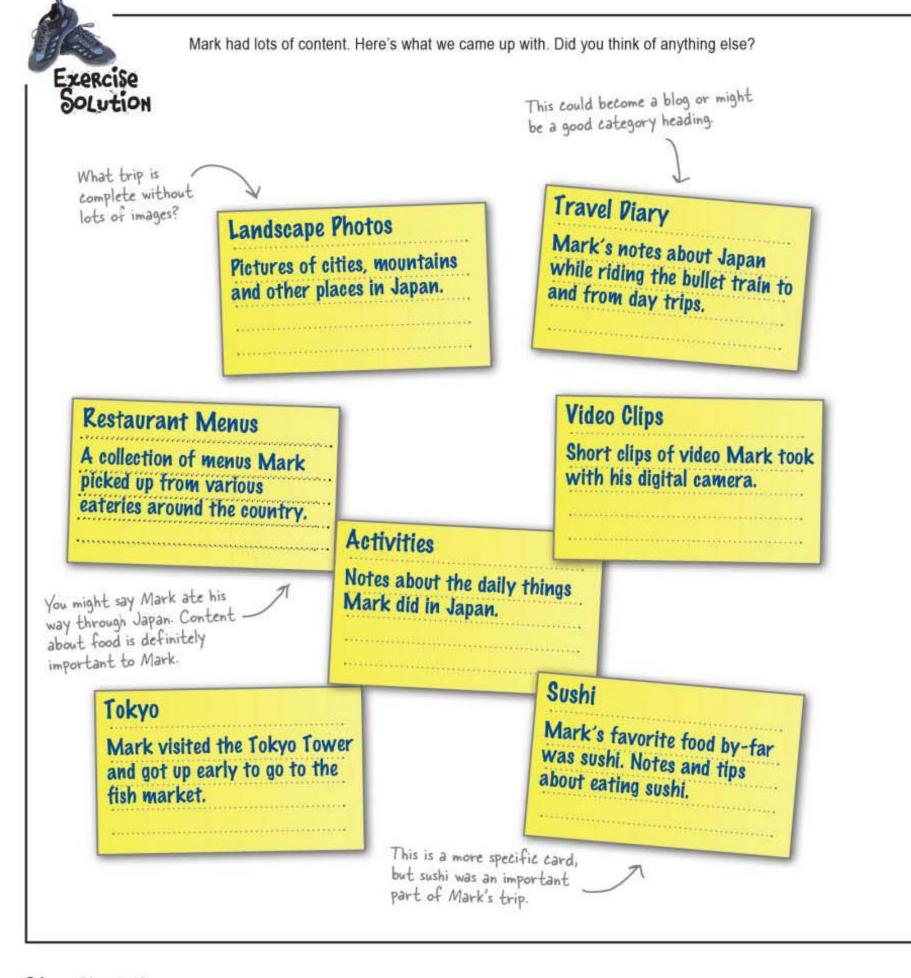
Head First: That's great advice. Well, we're just about out of time. Thanks for talking to us today, Card Sort.

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







Since Mark really liked food, we came up with sevearl food-related chunks. That lets us break things up a lot more.

Food Notes

Notes about all the food and restaurants Mark visited.

Advice and insight about traveling to Japan.

Travel

What it's like to travel to and around Japan. Trains, planes, cabs, etc...

Culture

The difference between American and Japanese culture.

Learning Japanese

Quick Japanese language lessons for new travelers.

Bars and Nightlife

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

Hiroshima

About the trip to the site of the A-Bomb.

Mark visited some of Japan's most famous cities. We could probably have a card for each major city.

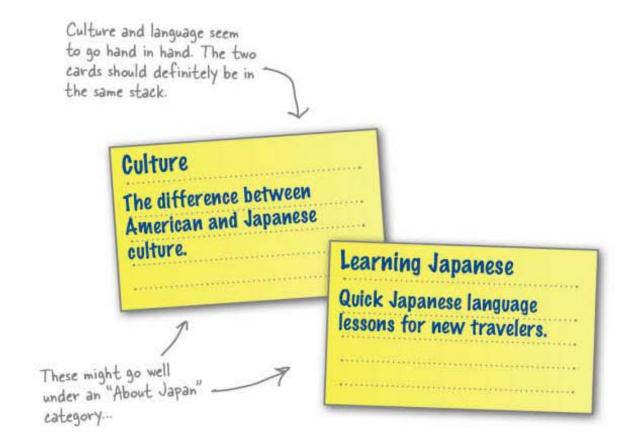
People Photos

Pictures of people and friends that Mark met along the way.

It's okay if your answers are different. We'll be using these cards in the rest of the chapter, but you're welcome to use your own, too.

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.





Group the cards you made on the previous page into logical groups. Don't worry if you have leftover cards—we'll deal with those in a bit.

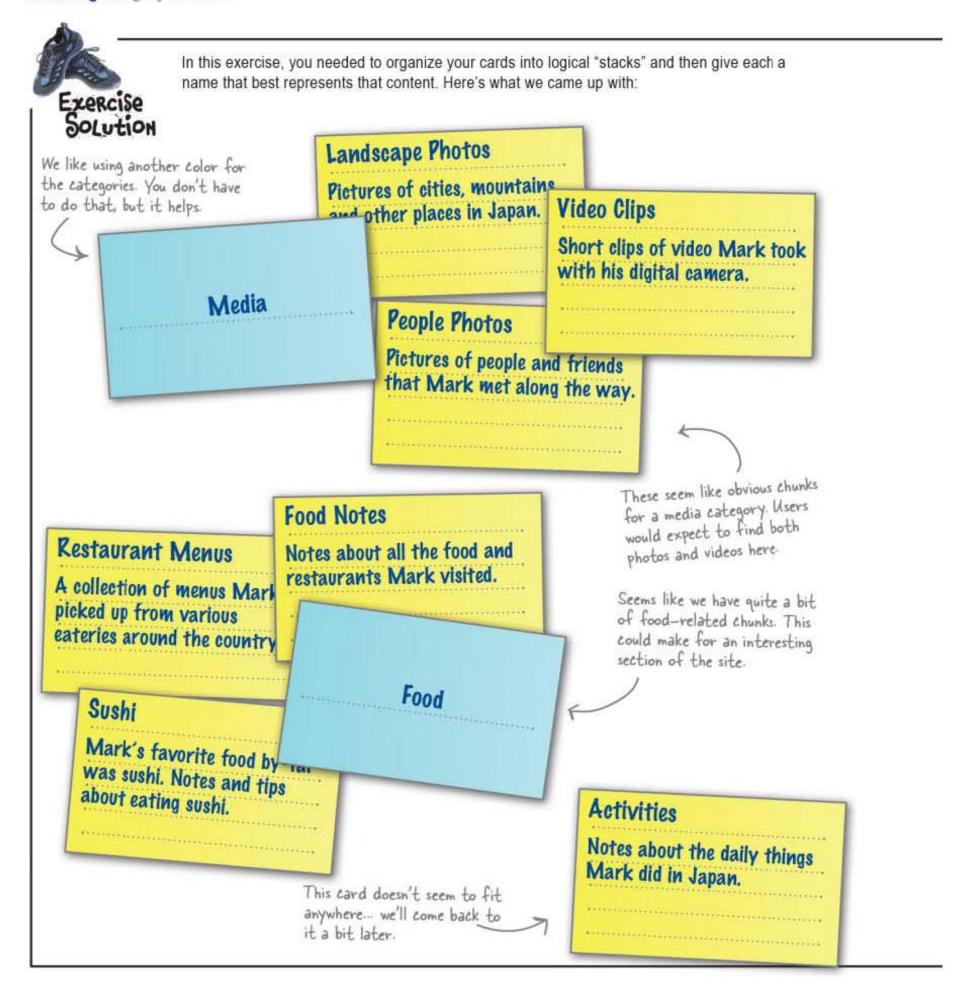
Give your stacks names that are short and descriptive

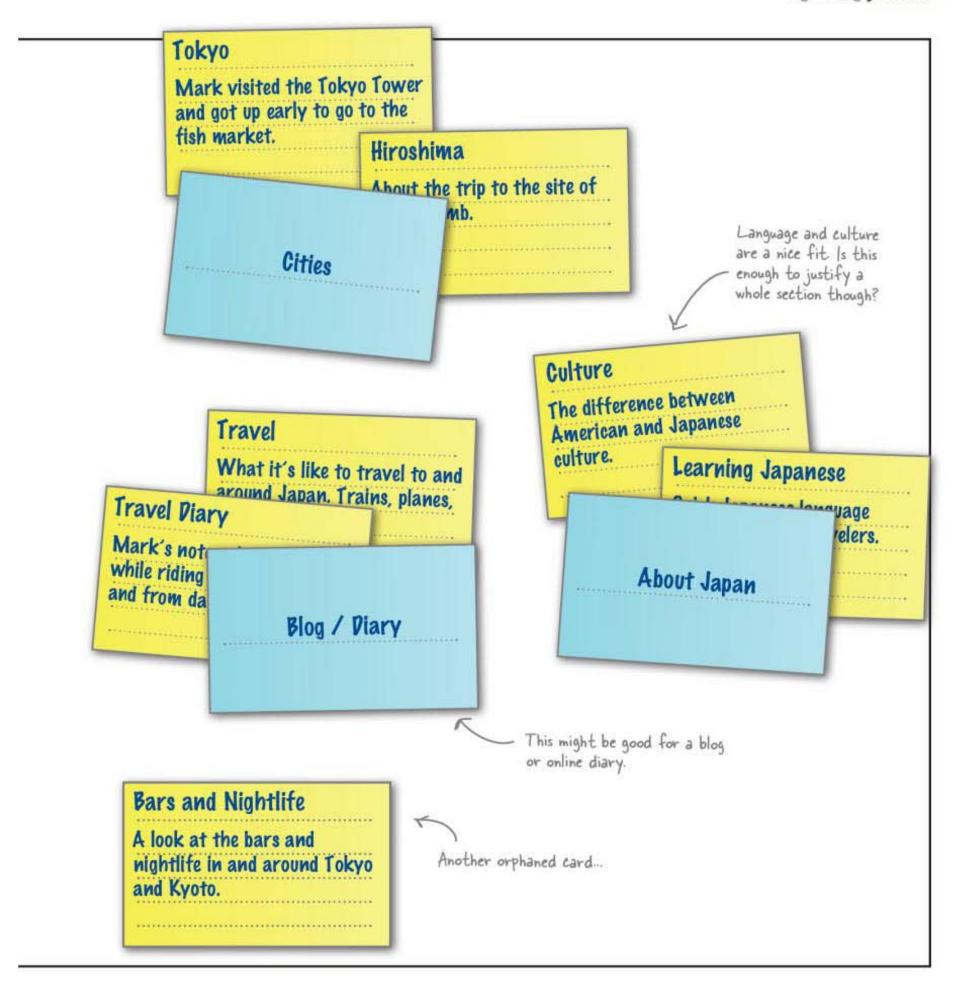
After you've created your groups, it's time to give each group a name. The name has to be short and descriptive. These descriptions may end up becoming part of your main navigation, so keep them focused on the content, but broad enough to contain the content they describe.

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.

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

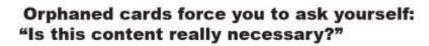
Take a picture of your card sort, and how you've organized it. You can reference the picture later, and still move your cards around into different arrangements.





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?

0



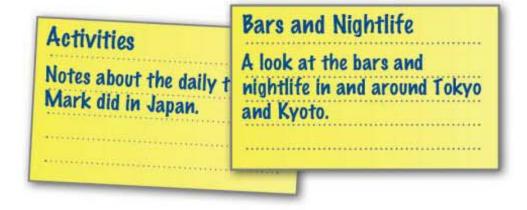
In some cases, you'll find that cards don't fit anywhere—these are called **orphaned cards**. You might be wondering whether you've done something wrong, but don't worry. These cards are usually a sign that you are doing something right!

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 eards? Important?
Not right for Mark's site?
Too vague? Too specific?



Hey, why are we doing the sorting anyway?

I thought that the whole point of User
Centered Design is that you don't design for
yourself, you design for your user.

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.

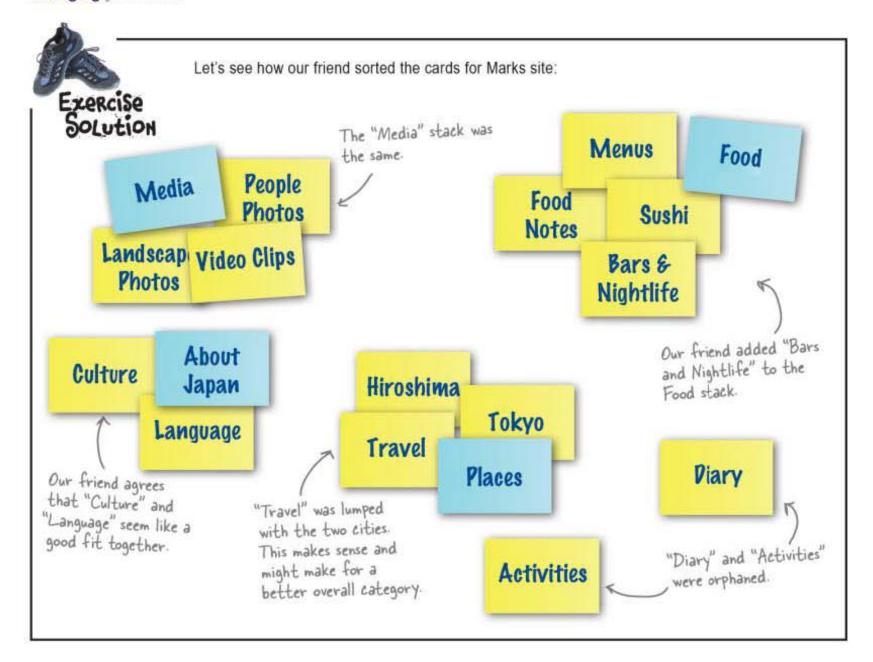




........

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.



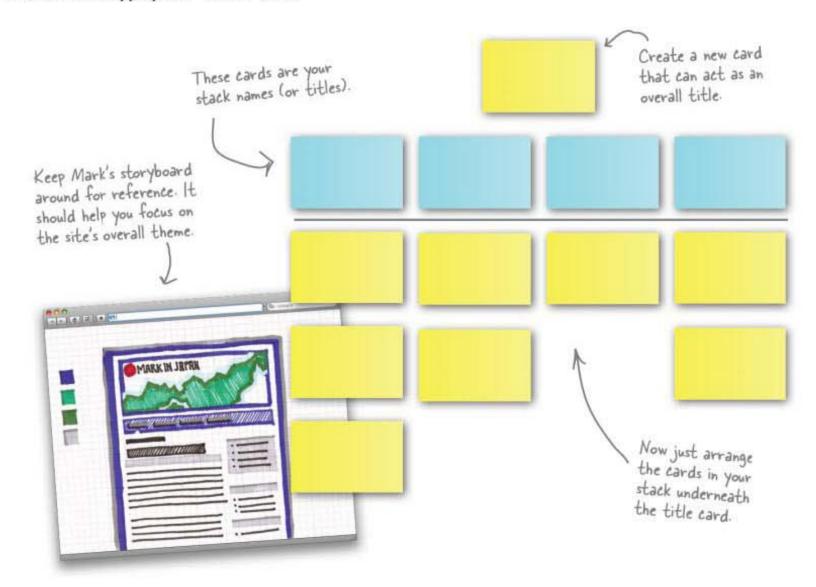
Which card sort is right?

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.

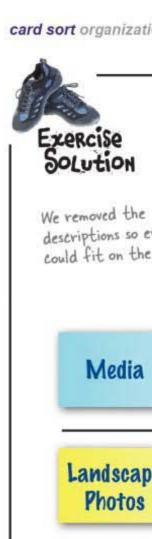
Arrange your cards into a site hierarchy

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.



After considering the sorts our friends did and rethinking our original card sort, we came up with a final sort layout like this:

descriptions so everything could fit on the page ...

Mark in Japan

A potential title for Mark's site

Food

Travel Notes

Blog

About Japan

Landscape

Food Notes

Tokyo

Travel Diary

Culture

People **Photos** Restaurant Menus

Hiroshima

Mark's travel diary will work perfectly as a blog.

Language

Video Clips

The photos and videos definitely belong under "Media."

Sushi

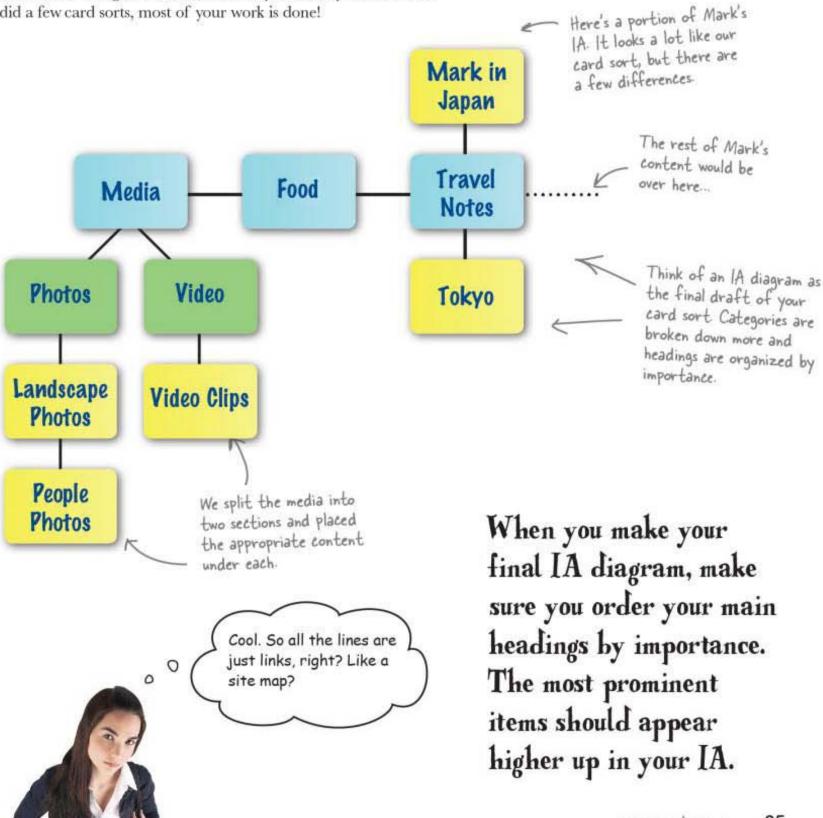
Bars & Nightlife We kept the cities in their own column but changed the heading to "Travel Notes" to better represent the results of our card sort.

All of our friends put culture and language in the same category. These are good chunks for a section about general information about Japan. This is also a place where Mark can add extra content if he wants to.

We added "Bars and Nightlife" to the food category because it kept coming up when our friends did the sort

IA Diagrams are just card sorts on paper

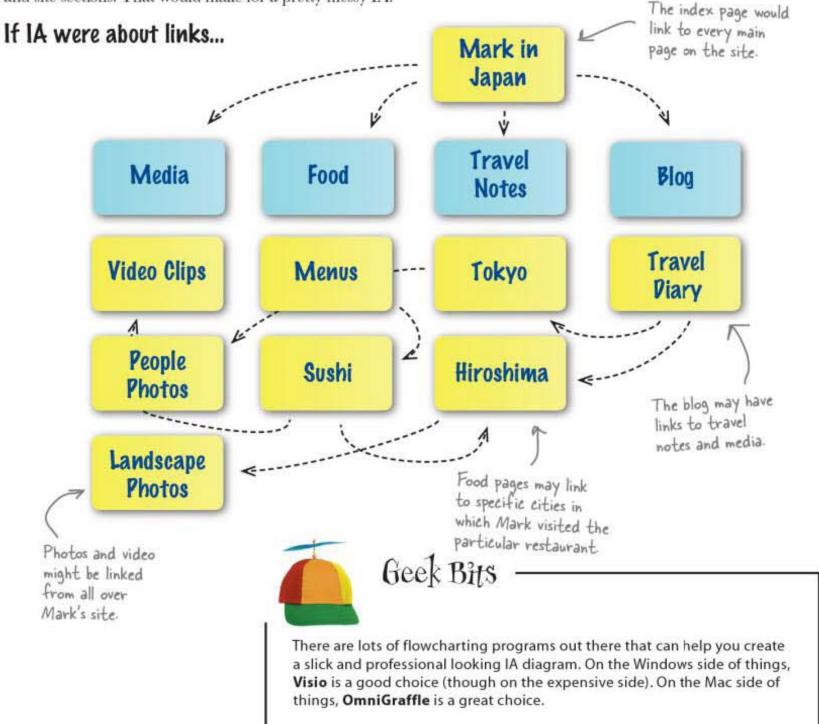
An IA diagram is a lot like the "on the table" site map you created (and photographed) in the last exercise, but it's also a lot more. An IA diagram not only shows the organization of your site's content, but it shows the hierarchical relationship between sections and subsections of that content. The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

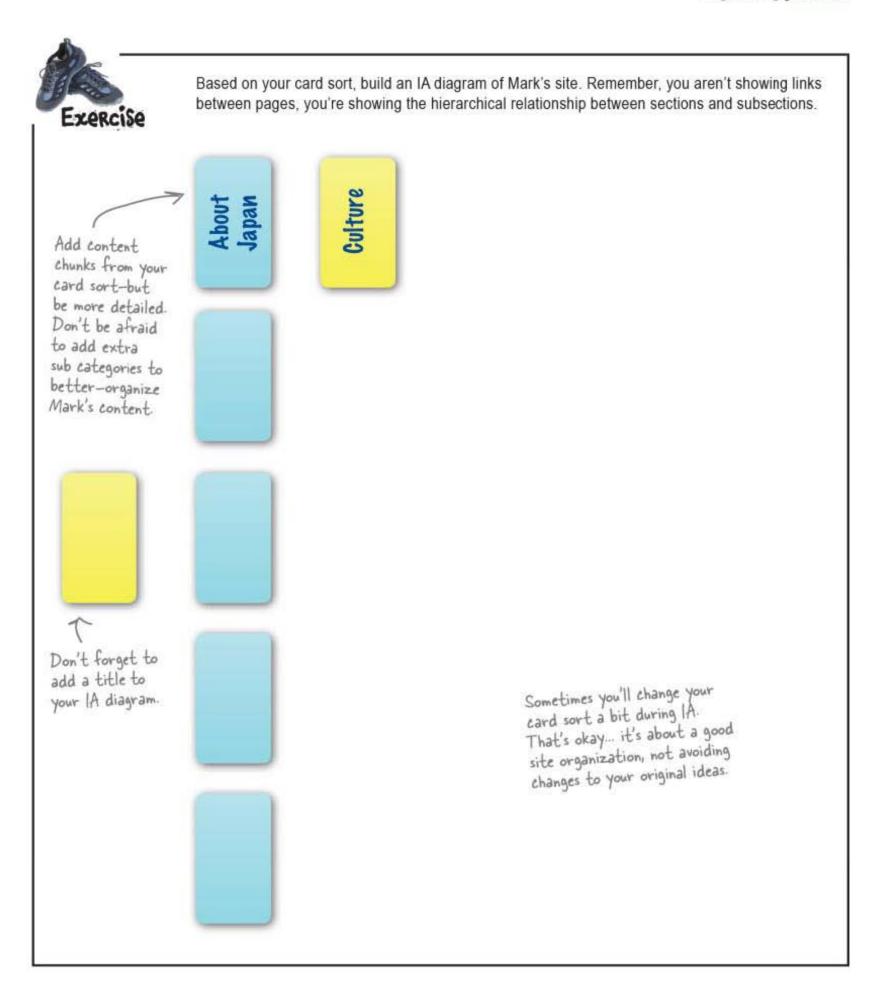


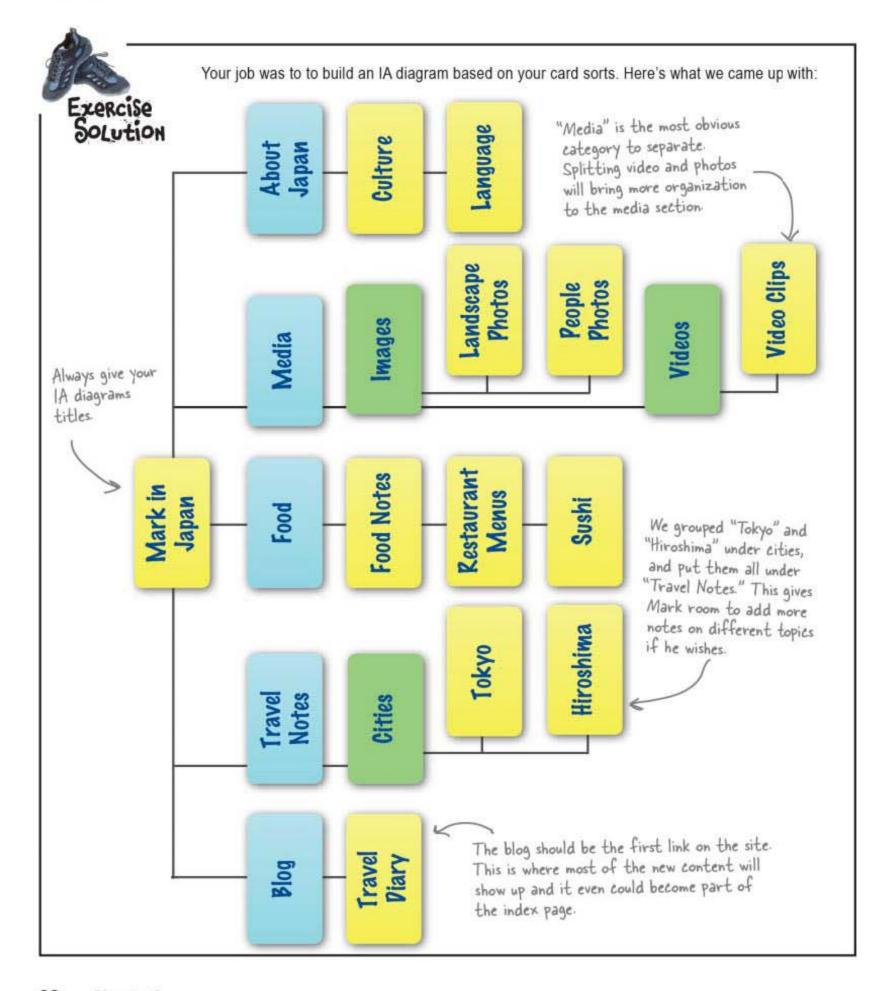
IA Diagrams are <u>NOT</u> just links between pages

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

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.

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.

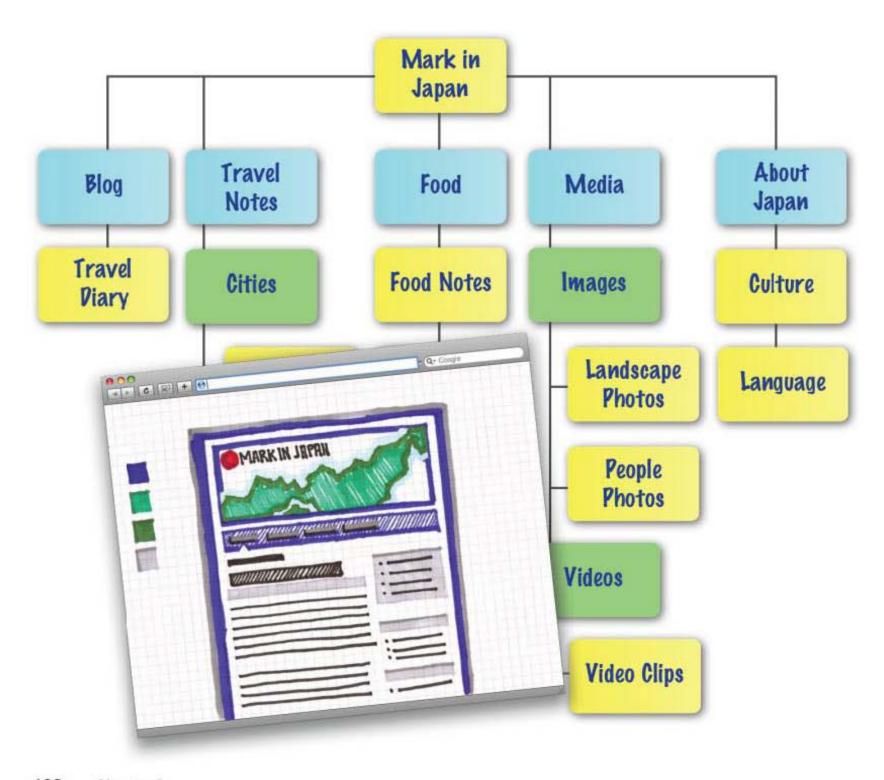
How does a site's theme relate to information architecture?

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.

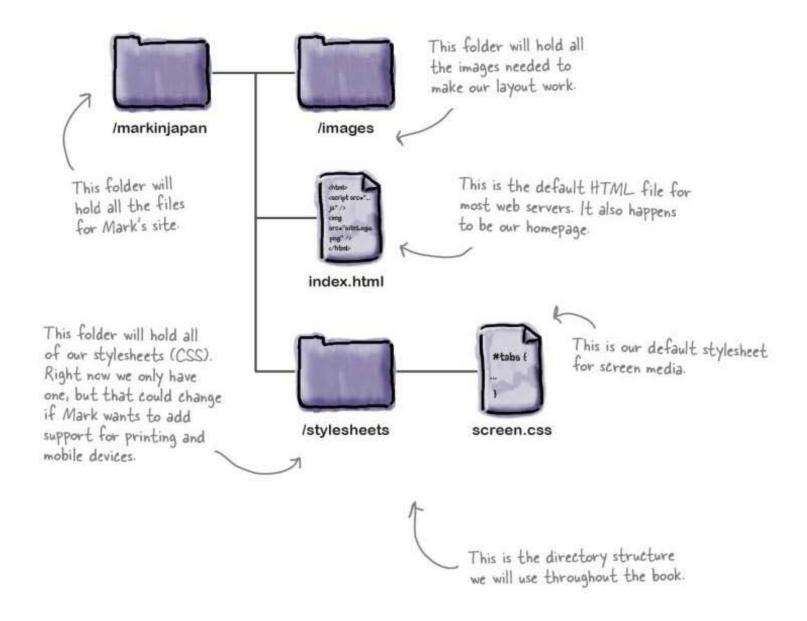
Move from pre-production to production

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...

```
<font> into your markup. You'll have a nice
                                                                separation of content and style.
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <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"> &
                                                                 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">
    <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 © 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>.
```

Using Strict XHTML means you won't be

tempted to sneak style tags like <center> and

...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;
p, h2, h3 {
       margin: 0 0 10px 0;
ul 1
       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.
```

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 {
                                                             O
       padding: 5px;
       background: #eee;
       border-bottom: 2px solid #ddd;
       font-weight: normal;
#footer {
       clear: both;
       padding: 10px;
       background: #eee;
       border-bottom: 2px solid #ddd;
                Make sure you clear the footer so
                that it displays below both the
```

content and sidebar <div>'s.

Don't worry, all this code can be downloaded from the Head First site.

Actually, you should download the site. We've provided all the images, too, so that your design looks as good as it does on the page. You can also see Mark's site online to compare your version with:

www.headfirstlabs.com/books/hfwd



Pre-production to production: The complete process

Gather all the your content.



Brainstorm a theme and visual metaphor ideas.

Map of Japan Sushi Hiroshima The Golden Palace

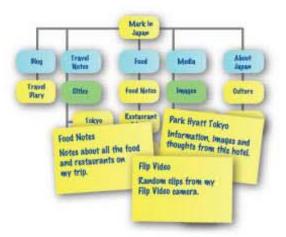
Develop a visual metaphor and think about layout



Build a storyboard (on paper)



Do a few card sorts and create an IA diagram.



6 Markup your content and style with CSS.



Your Web Design 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 site's 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
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**.

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).





Who's your site's audience? Take a look at these two sites, and write down who you think the specific audience of each site is.



Hop online to see these sites, and judge their audiences for yourself.



Sharpen your pencil Solution

Lets take a look at the possible audiences for these sites.

High-end food photography turns meals into models and shows the site's passion for all things food.



Delicious Days audience is a group of

people that see cooking as more than just

something they have to do. These people

might be described as "foodies" or see

food as a form of art:

www.deliciousdays.com

In-depth food writing makes Delicious Days more than just a site to find recipes. Wal-Mart uses a very generic, centered, two-column design that seems to try and appeal to a wide audience.

(<u>.</u>	Two New Innovations for More and Baby Similar 9	(4- Caspa
Walmart :		
And the second s	New! Only at Walmart hospitation to be been	Deplines
Belleville Design State	Brown Steers Company of the Company	Calls or 30 Days
Amount to the same of the same	Moment for Care The rest of the Care The rest of the Care The rest of the Care The	S24.99ve
Family Co.		.walmart.com

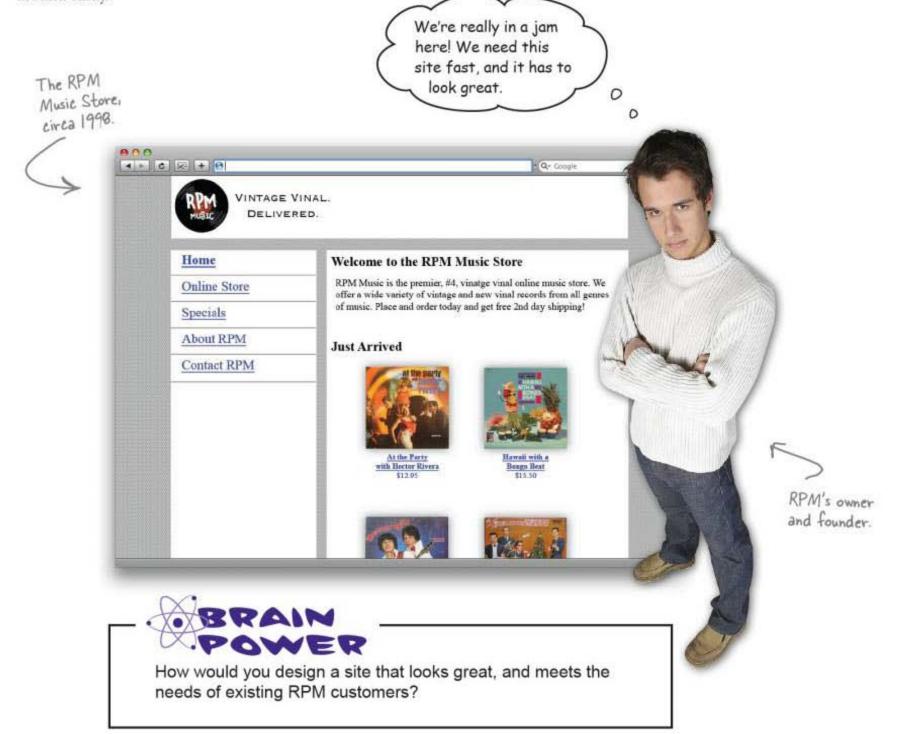
Walmart's intended audience is not
immediately apparent. Their site is generic
and was most likely designed to appeal to
a large group of people.

The sidebar has links to all the products offered on the site-not favoring any particular group of items. Again, something for everyone.

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

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.

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.

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

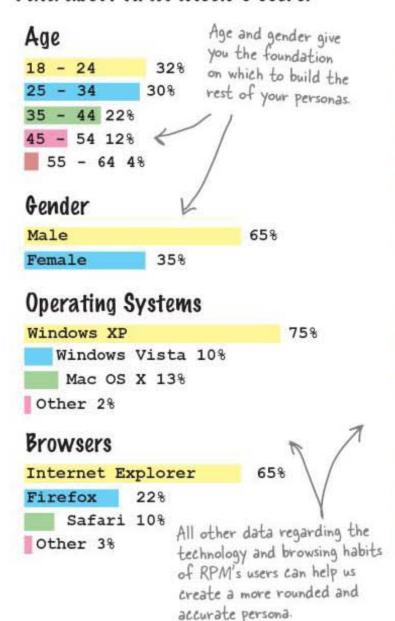
Your personas should be based on real data.

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:



Pata about RPM Music's users:



Music Preference

Blues 5%
Classical 1%
Country 15%

Electronic 3% Hip Hop/Rap 25%

Jazz 4%

Pop 30% Rock 20% 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

800x600 43% 1024x768 42% Higher 10% Don't know 5%

Internet Connection

Dialup 12%

DSL 55%

Cable 27%

T1 or higher 6%

These stats are from an old customer survey, and the logs from the RPM site web server.

Exercise	Based on the RPM user data, create two different personas for the RPM Music Store redesign. For the first persona, take the top value for each of the categories. For the second persona, use the secondary value.
[Name:
į	Age:
1	Internet Connectivity:
I	Avg. time online/week for leisure:
;	Browser of choice:
1	Operating System:
1	Screen Resolution:
I	Occupation:
i	Petails:
Make sure you add a Paste in a Creative (picture.
photo, one you might	have laying
around, or anything that seems to fit you	you can find ur persona.
:	Name:
į	Age:
î	Internet Connectivity:
i	Avg. time online/week for leisure:
į	Browser of choice:
į	Operating System:
Ì	Screen Resolution:
ì	Occupation:
1	Details:
·	
Make up some f about your pers	ctional details
occupation) - t	his helps give the
persona a more	ealistic feel.

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

0



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

O: 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.



Based on RPM user data, here are two personas (a primary one and a seconday one) we can use for the design and implementation of the RPM Music site.

Males represent the primary RPM users - by quite a large margin.

Jon falls into the largest age group of the RPM users (18-24).



Name: Jon

Age: 24 Internet Connectivity: PSL

Music of Choice: Pop

Browser of choice: Internet Explorer

Operating System: Windows XP

Screen Resolution: 800x600

Occupation: Architect

Petails: Jon is a busy guy and only spends about an hour a day outside of work online. He uses the family computer to read news and few architectural blogs online. Occasionally, he buys books and music from Amazon when he can't make it out to the store.

Jon is the "primary" persona for the RPM Music site and repesents a typical user of the site. He will be the main focus throughout the design and development of the site.

Because Jon has a busy career, he has little time for Internet leisure. When he can, he uses Amazon, which means he's familiar with online shopping-especially with music.

> You probably have something different here. Just make sure your details line up with the stats for the persona.

Susan fits into the second largest demographic of RPM Music users (24-34 year-olds) and as a female represents, about 1/3 of the total visitors.

Susan connects to the Internet using a Cable line from her apartment. According to the server logs, this is the second most frequent way RPM users connect to the site.



1024x768 is pretty standard on laptops, and Mac OS X is an extremely popular operating system among college students.

Name: Susan

Age: 30
Internet Connectivity: Cable
Music of Choice: Rap/Hip Hop
Browser of choice: Firefox
Operating System: Mac OS X
Screen Resolution: 1024x768
Occupation: Student
Details: Susan is grad student and spends a fair
amount time online outside school. She is very techsavvy and likes to shop and buy music online for her

MP3 player. Her PC is a laptop so that she can easily

take notes in class and study outside her apartment.

Susan is the "secondary" persona for the RPM Music site and represents the second most common user of the site. She won't be the main focus throughout the design, but she's still important.

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.

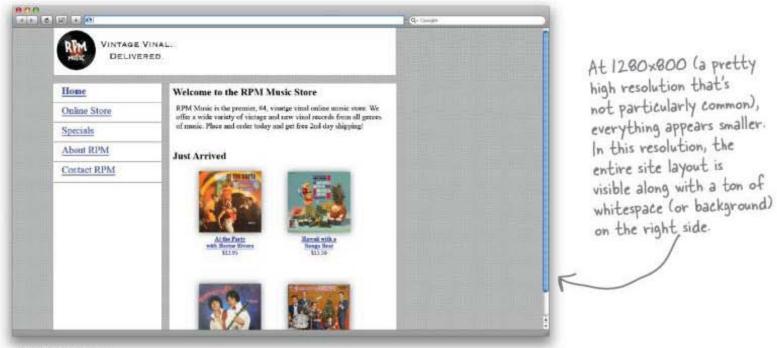


Is it better to design a site that looks perfect on one specific resolution—the most common one used by your audience—or a resolution that looks pretty good on lots of resolutions, but not quite perfect on any?

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:



1280x800



1024x768



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

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.

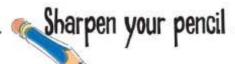


Your users don't care about screen real estate... they just want sites to "work."

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.



Below are methods for dealing with different screen resolutions. Take a look at each one and write down a pro and a con of each.

Methods

METHOUS	
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.	Pros: Cons:
Design a single version of RPM that works fairly well with a wide variety of devices and screen resolutions.	Pros: Cons:



Your goal was to write one pro and one con for each of the different methods for managing screen resolutions. What did you come up with?

Methods

This is definitely the hardest of the three options. Seriously, who wants to design that many sites?

Use JavaScript in your page to automatically detect the user's current screen resolution, and direct them to a site that works best with that resolution. Pros: Ability to handle a wide variety of screen resolutions.

Cons: If Javascript is off, this method becomes useless.

Relying on Javascript for a critical task like making sure your pages are displaying properly isn't such a good idea. If there's a script problem, or Javascript is off, both these techniques become useless.

Use JavaScript to load a CSS stylesheet appropriate for your visitor's screen resolution.

Pros: One site with multiple stylesheets is better than multiple sites.

Cons: Again, no Javascript, no resolution detection.

This is a better strategy than a site for every device and screen resolution. Granted, you've got to create multiple CSS files, but you only have to create one XHTML file - which means less markup to maintain and update.

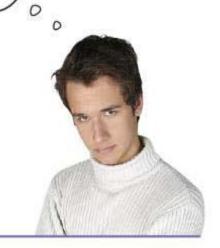
Design a single version of RPM that works fairly well with a wide variety of devices and screen resolutions.

Pros: No Javascript or extra code.

Cons: You must decide on a "base" resolutions that you will design for.

This is the easiest way to go. Not only will you write less code, you won't be relying on Javascript to handle resolutions. All you need to do is identify the smallest resolution that will work for your users and design for that. All larger resolutions will render the site properly and smaller screens will generate scroll bars (but hopefully this is a tiny portion of your users).

I think I want to be forward thinking and shoot for 1024x768. Besides, a large chunk of my audience is already there



Dumb Questions

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.

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

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.

Ok, 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.

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.

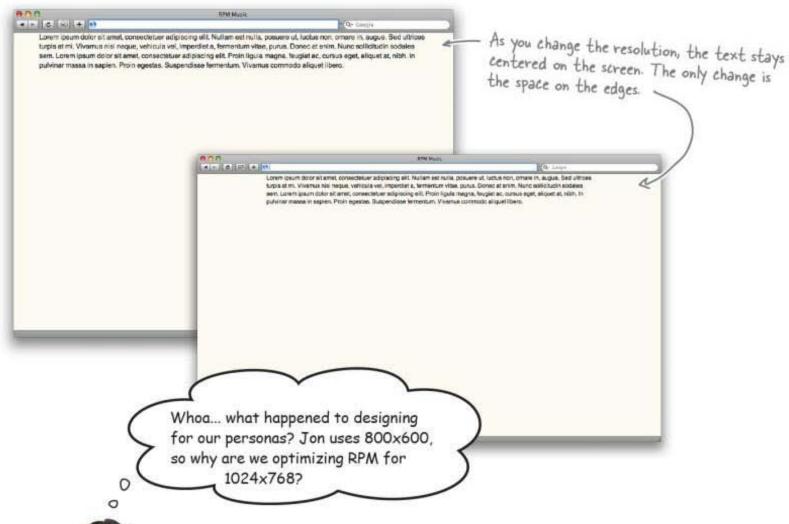
Build an XHTML and CSS foundation optimized for 1024x768

```
Standard XHTML Strict DOCTYPE
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
       "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" 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
         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.





Knowing your audience lets you make informed decisions.

Jon uses 800x600, but if you check the RPM user survey back on page 115, 800x600 just barely nudges out 1024x768. Since we know that, we can build a site that actually looks ideal on 1024x768... but that also looks pretty good on 800x600, too. That's the power of personas: you can make decisions and have a good idea of how they'll affect your audience.

Hmmm. Latin text
on a screen... not really
what I had in mind. Let me
give you a better idea what
I'm looking for...



RPM	MAnoi	•	10
KYM	MIN	U	L.V

- Reach all my current customers.
- Update the look and feel of the site.
- Provide a blog, but as secondary focus.
- Feature records on the home page.



Which of the RPM site features have we addressed? Any of them? None of them? Check off any boxes you think we've handled (or at least worked on). Then, write down your ideas about how to take on the remaining features for RPM Music 2.0.

This is terrible... we've spent all this time building personas and entering Latin text on a screen. Now the CEO thinks we've got nothing done. We're way behind...

Frank: I'm not so sure. I actually think we've got a good handle on his first requirement: "Reach all my current users."

Joe: You mean because we can get text to look right on 1024x768 and 800x600?

Frank: Well, that's part of it. But our personas-

Jim: Jon and Susan? Enough with the fictional characters already!

Frank: No, I'm serious. I really think if we can please them, we'll have reached RPM's core audience.

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.

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.

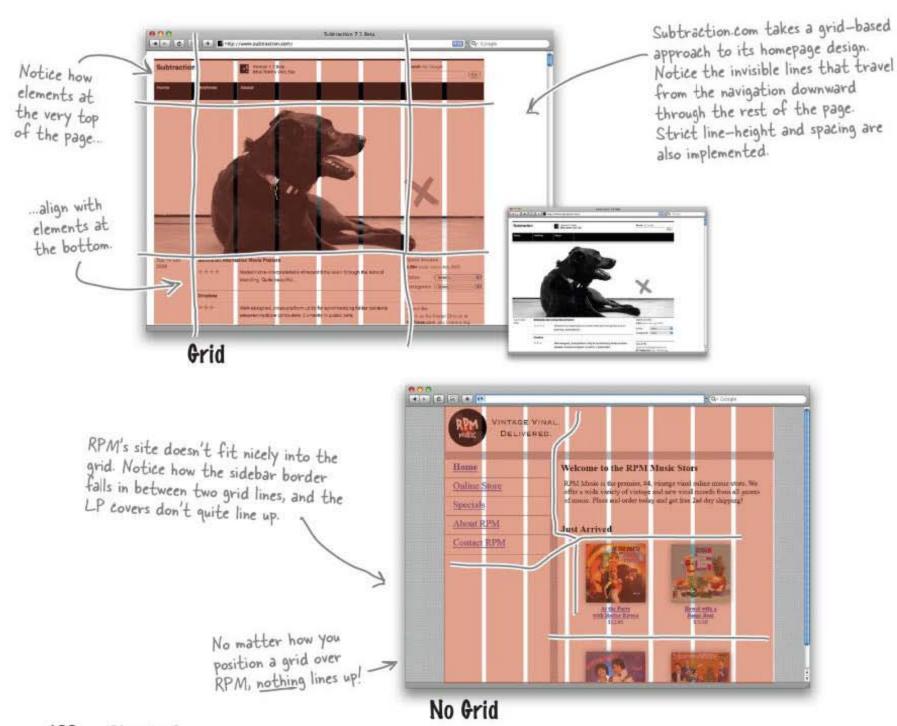
Joe: Is that like the Golden Rule? Do unto others...

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.

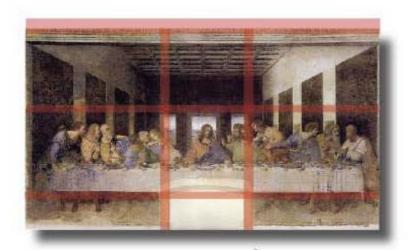
Imagine if you laid out a grid on top of your favorite sites. Do things line up along a grid? Are there strong horizontal and vertical spaces that allow you to group the page into sections? Take a look at a grid-based site... and the old version of RPM:



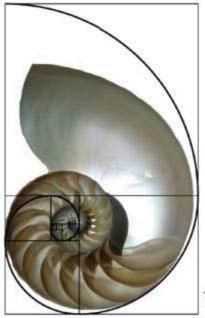
How wide should my grid be? Use the Golden Ratio

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:



Da Vinci's Last Supper is a great example of art that utilizes the Golden Ratio.



The main content section is the larger number in the ratio and accounts for about 2/3 of the page.

The footer and header represent the full length of the block.

The nautilus shell is an example of the Golden Ratio showing up in nature.



The rule of thirds: A shortcut to the Golden Ratio

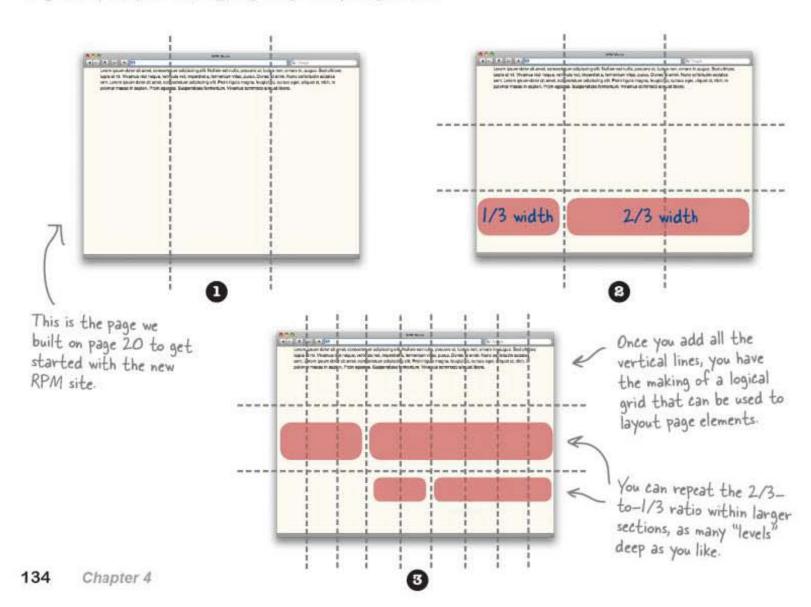
The Golden Ratio says that if you take the entire width of something, and multiply it by 0.62, you'll get a nice wide area that you can put content into. The remaining 0.38 is great for sidebars, extra content, things that the eye can look at second.

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:

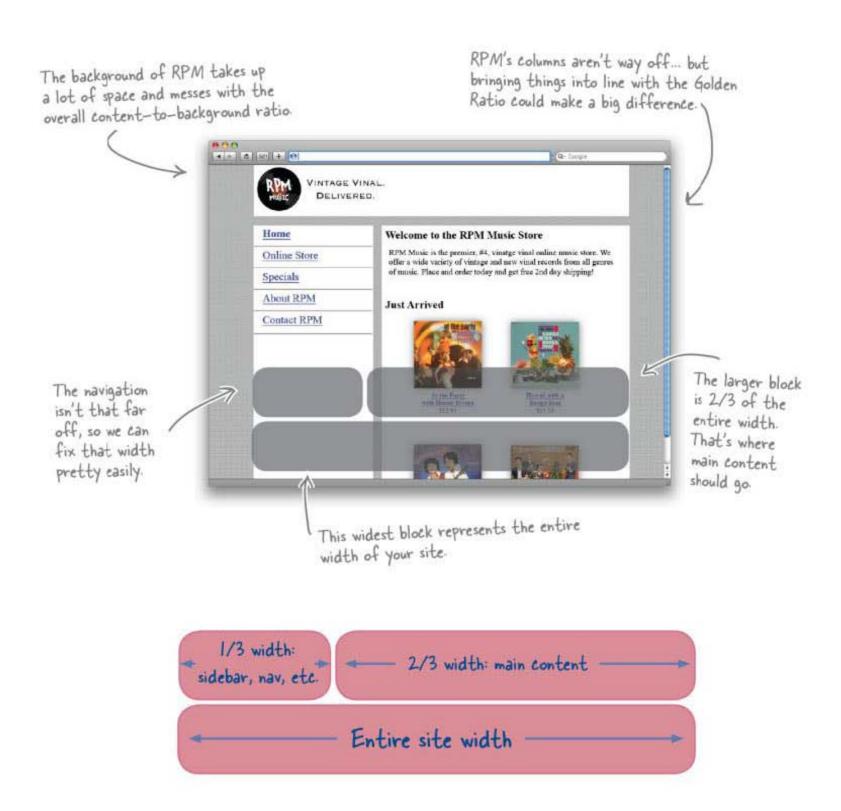
- **Step 1:** Take a piece of paper, and draw a rectangle to represent your site. Then divide your rectangle vertically by thirds (use a ruler, or just estimate carefully).
- Step 2: Divide the rectangle horizontally by thirds. Now you've got a very loose grid.
- **Step 3:** Divide each of your vertical columns into thirds. Now you've got sort of a grid-within-your-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

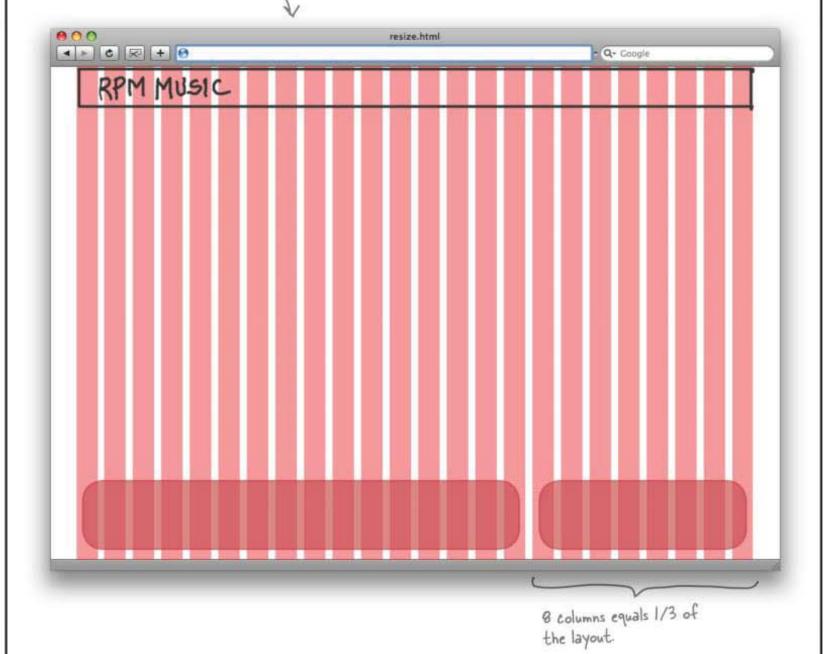
So if the eye really likes to see things in a 2/3-to-1/3 ratio, how does RPM's site stack up? We already know it doesn't really follow any particular grid alignment. But what if we overlay the 2/3 to 1/3 ratio graphically... what does it tell us about RPM?





Based on the grid below, sketch out a storyboard for the RPM Music site. Try and keep up with how your elements are laying out not only against the grid, but in relation to each other. Is an element part of the main content? Try and make it the 2/3 part of a 2/3-to-1/3 ratio. Just do your best... there's no perfect answer if you keep things in proportion.

This grid is based on page width of 950px (each column is 30px with a spacer of 10px).



I think we have to do more than just make things the right proportion to each other.

We've got to make the important things attract attention... so make them bigger, right?

Important content should "weigh" more.

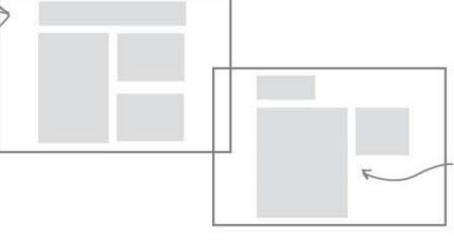
You should already be putting your most important content into the 2/3 part of your 2/3-to-1/3 page ratios. But is that the only way to draw attention to something? Not at all!

When you're laying out your page, you're creating a balance between larger elements and smaller ones. The larger elements have more weight, and the smaller ones have less weight. Plus, there's how the elements relate to each other:



0

The page elements in this example feel balanced on the left and right side.



Because of the heavy weight in the left column, this example seems disproportionate.

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.

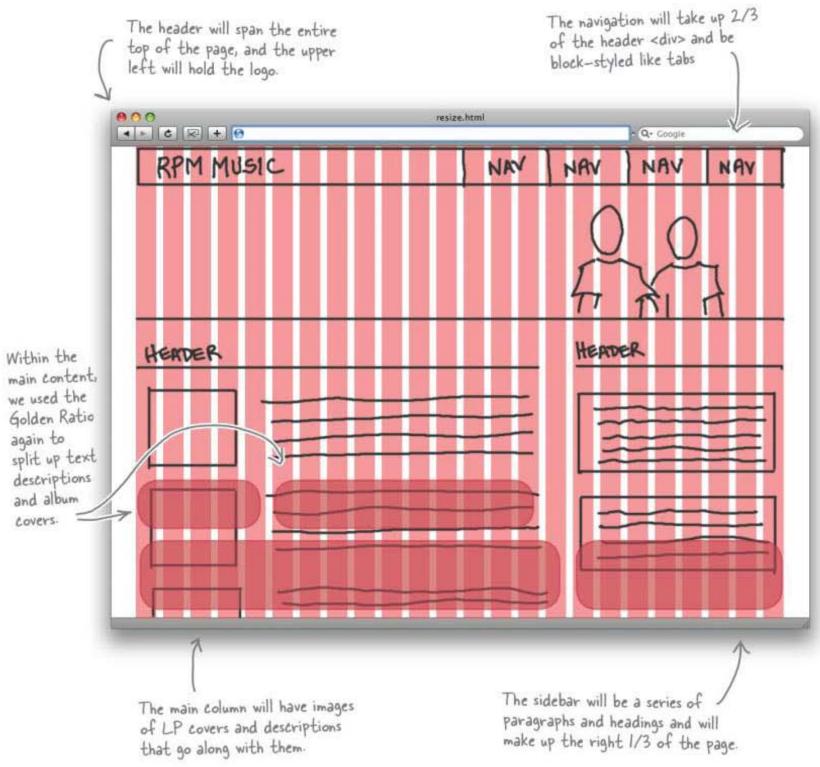
Asymmetrical balance occurs when the weight of a site's elements is not evenly distributed around a central line. So you've got one really large element only partially offset by other, smaller elements.



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.



Name: Jon Age: 24 Internet: PSL

Music: Pop

Browser: Internet Explorer

OS: Windows XP

Resolution: 800x600

Does your version of RPM highlight musical interests?

Name: Susan

Age: 30

Internet: Cable \(\times \)
Music: Rap/Hip Hop

Browser: Firefox

OS: Mac OS X «

Resolution: 1024x768

Browser issues aren't really relevant yet, but screen resolution certainly is.

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?



Reach all my current customers.

Update the look and feel of the site.

Provide a blog, but as secondary focus.

Feature records on the home page.

Look over your RPM 2.0 ideas. Can you check off each of these boxes based on your design?

If you need to make changes to your design, go ahead! That's why we're working with paper, anyway.



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?



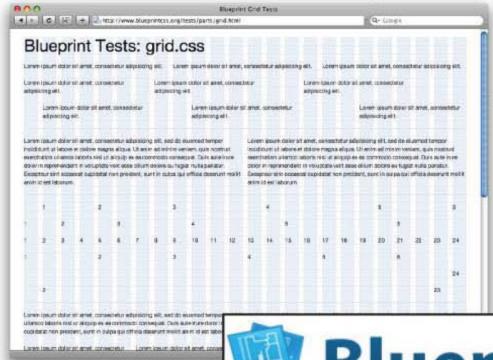
There are CSS frameworks that provide grids for our content to "sit" against.

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.

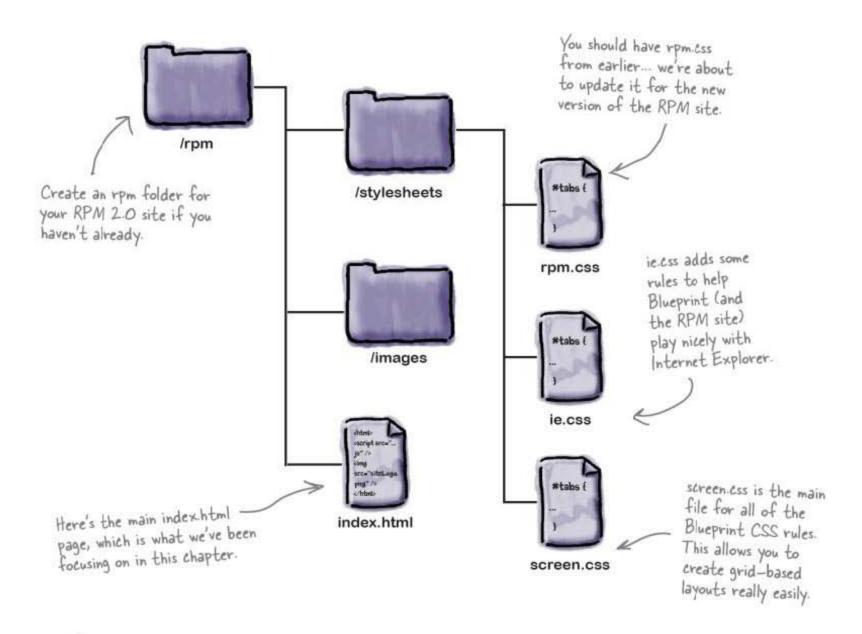


Add gridess to your page, and you'll see this nice grid overlaying everything else on your page.

Blueprint

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. Use the examples that come with Blueprint as a model, especially for how ie.css is referenced.



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"</pre>
                     "http://www.w3.org/TR/xhtml1/DTDVxhtml1-strict.dtd">
             <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
                <title>RPM Music</title>
                <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
                                                                                          screen.css is the
                <link rel="stylesheet" type="text/css" media="screen" <</pre>
                                                                                          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]-->
                k rel="stylesheet" href="stylesheets/rpm.css" type="text/css"
                      media="screen" />
comment only
             </head>
shows the ie.ess
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.

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.

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

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

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
        "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" />
  <link rel="stylesheet" type="text/css" media="screen"</pre>
         href="stylesheets/screen.css" />
  <!--[if IE]>
    <link rel="stylesheet" href="stylesheets/ie.css" type="text/css"</pre>
           media="screen, projection">
  <![endif]-->
  <link rel="stylesheet" href="stylesheets/rpm.css" type="text/css"</pre>
         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
```

Time to get your RPM groove on



Can I see what the site would look like with some of my records in place?

0

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



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.

Style:

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.

Content:

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 GIF.

</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.



albums, so

list (u).

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>
we used an
                  <div class="column span-4"><img alt="cover1"</pre>
                           src="images/cover1.jpg" /></div>
unordered
                    <h4>At the Party with Hector Rivera</h4>
                    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
                  (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 id="footer">Footer Content</div>
          </body>
```



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.



Zero out the margin for

- some common page elements.

Add some CSS to clean up the layout

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

```
p, ul, li, h1, h2, h3, h4 {
       margin: 0;
h3 {
       margin: 0 0 20px 0;
       padding: 0 0 5px 0;
       font-weight: bold;
       border-bottom: 1px solid #ccc;
ul {
       list-style-type: none;
#content, #sidebar {
       margin: 40px 0 20px 0;
#content h4 {
       font-weight: bold;
       font-size: 1.4em;
#content li p (
       margin: 0 0 70px 0;
```



rpm.css

The ul and #content rules will help get our records straightened out list-style-type: none will globally remove bullets from the album list. Usually bullets are good, but in this case we don't want them. The other important rule here is the bottom margin on #content li p. This rule makes sure each <1i> stacks nicely on top of the others.



RPM 2.0(1) is ready to test.

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



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:

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.

```
<body>
  <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">
       <l
         <a title="RPM Music home" href="#">Home</a>
         <a title="Music Store" href="#">Music</a>
         <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
      <l
                                                         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.
```

<h3>From the Blog</h3>

<div id="sidebar" class="column span-8 last">

</div>

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.

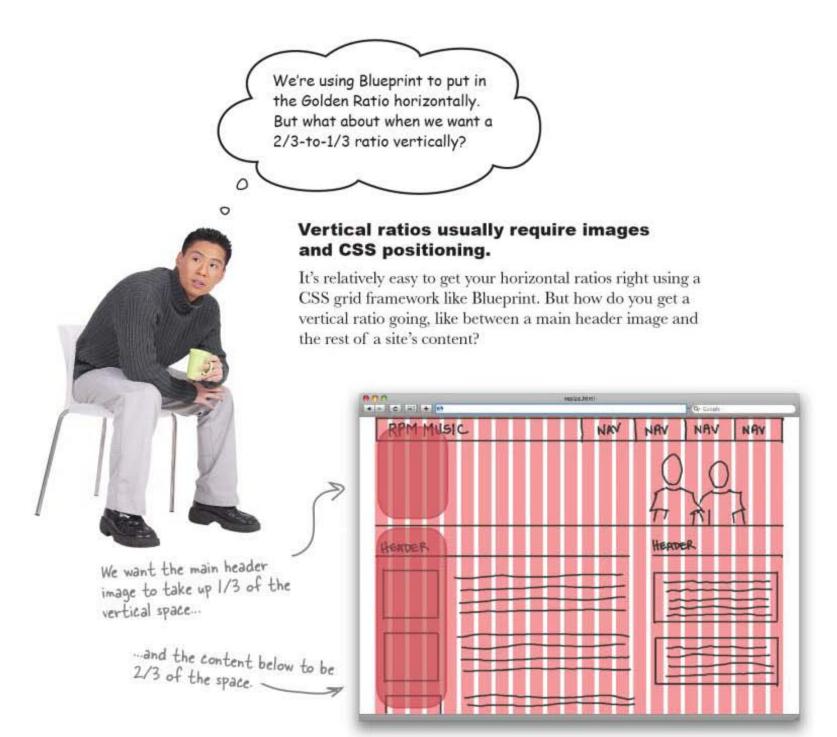
Oct 7 — New specials are up on on the site as of last night. Be sure to check out the LP's that offer free shipping.

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

```
</div>
  </div> <!-- end "container" div -->
  <div id="footer">
    Copyright © RPM Music, all rights reserved.
  </div>
                     A quick copyright notice is all we need in the footer for right now.
</body>
                     Notice that the footer <div> is outside the main container. This lets
```

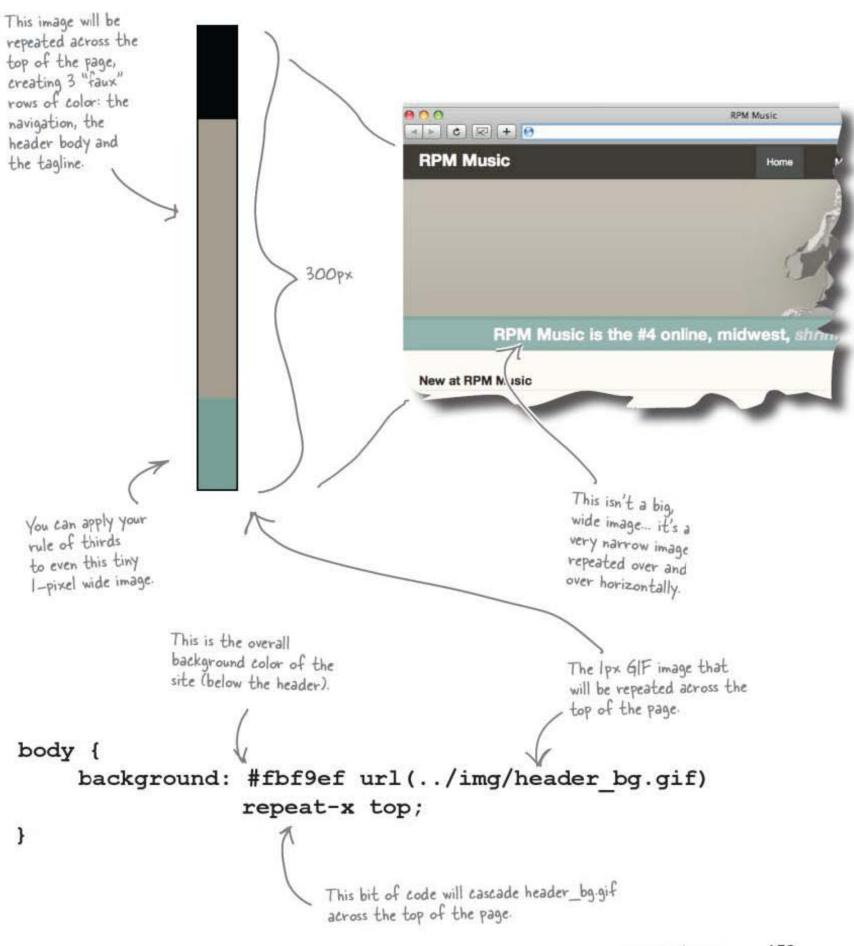


index.html



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:



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;
  padding: 0 0 5px 0;
  font-weight: bold;
                                                         Home
                                                                    Music
  border-bottom: 1px solid #ccc;
ul (
  list-style-type: none;
#nav (
  height: 50px;
                          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."
                                              This lets users know
#nav ul li.active, #nav ul li:hover {
                                              what page they are on.
  background: #333;
#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.
```

Just adding a few CSS rules will give us a nice-looking, functional navigation that also makes the site easier to use.

About

Cart

BEQ-

Blog

```
#header h1 {
  padding: 10px 0 0 0;
  font-size: x-large;
  font-weight: bold;
  color: #fff;
#header h2 ( <
  margin: 8px 0 0 0;
  text-align: center;
  color: #fff;
  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;
#footer {
  border-top: 5px solid #928977;
  background: #a9a294;
#footer p {
 margin: 0 auto;
 padding: 10px;
  width: 950px;
  font-size: 1.2em;
  font-weight: bold;
  text-align: center;
```

1



The <h2> element in the header is the RPM tag line. This spans the entire page and is centered in the layout. We need a little top padding to get this to line up properly.

These rules for the footer will allow it to span the entire bottom of the site, outside of the grid container. Using the same width as the grid (950px) and centering the content with margin: O auto gives us the layout we're looking for.



0

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.

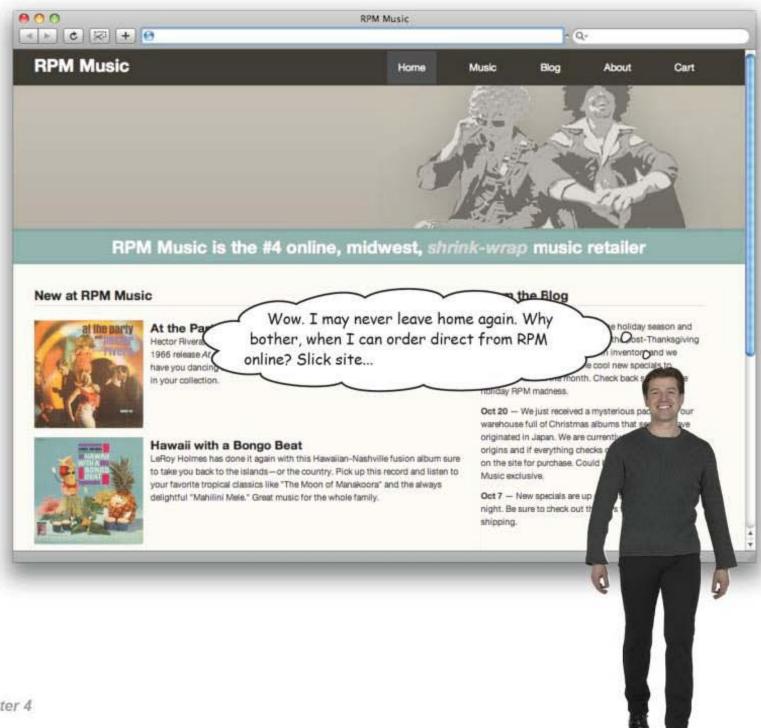
...........



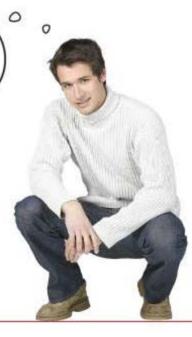
RPM is ready to go live.

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

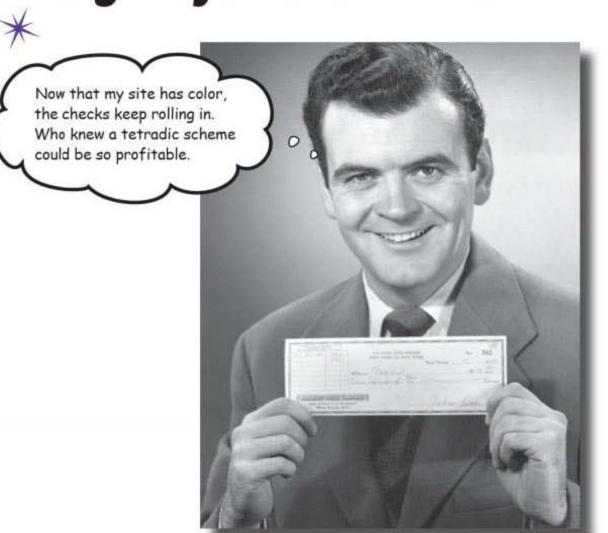
- A survey is an excellent way to get broad information about your audience.
- A persona is an archetype user that embodies and represents your audience.
- Screen real estate refers to the amount of space on the screen of the device that the designer has to work with.
- The lower your resolution, the 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.
- 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.



Moving Beyond Monochrome *





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.

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 already worked up and got Sam to sign off on.



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://grules.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.



It takes more than just a great design to get on 9Rules. What are three really effective way to get a site noticed online?

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.

That means we've got some choices taken care of for us, like colors. Take a look at the SampleRate logo... what will this dictate about our design?

This is the logo that Sam's set on using for the SampleRate site.

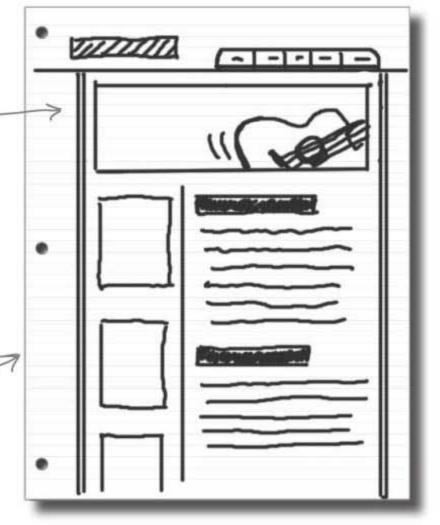


This is a take on a graphical EQ. For us, though, it sets the colors we've got to work with on the rest of the site.

Sam personally chose this typeface, so we may want to use that font within the site, too.

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!





















Take a look at these four screenshots and write down what you feel when you look at them. Use any kind of descriptive words you want. Excited, playful, happy, sad, curious—whatever you feel.

1 freshairapps.com



3 bigbluedev.com



3 caxtonstreetfestival.com.au



4 le-moulin-desauvage.com

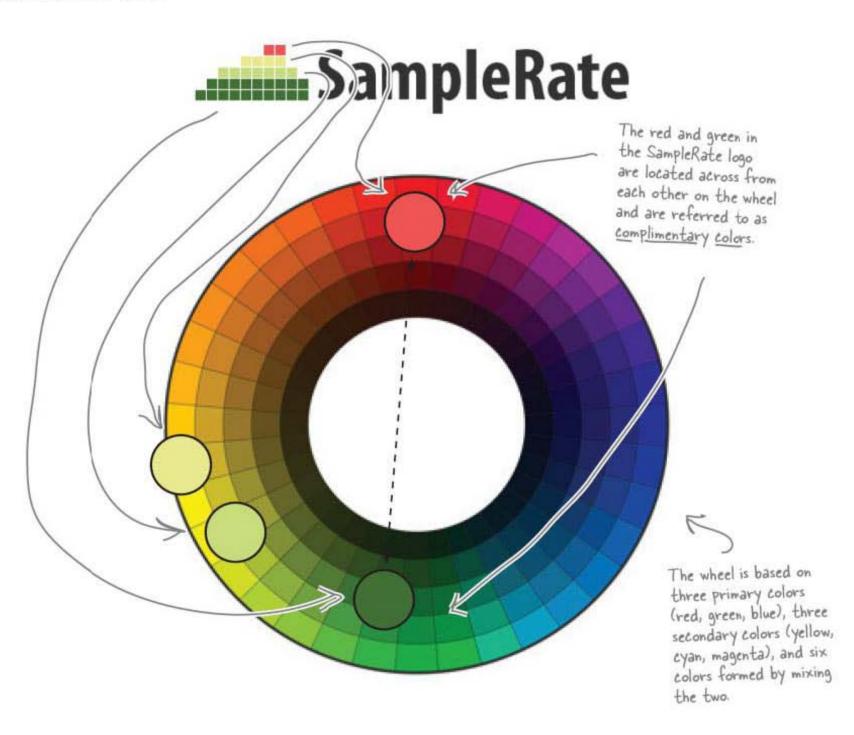




The color wheel (where it all begins)

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.



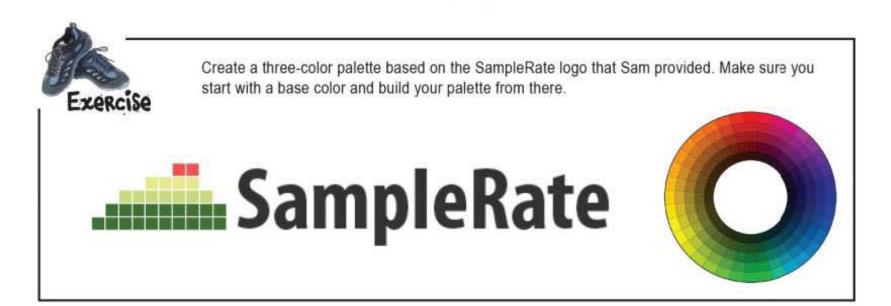
The site above has a fairly deep green all over the place. That's the **base color** of the site: the color that most represents the visual metaphor and that all other colors are based on. For SampleRate, we'll need to begin by choosing a base color. Then, we base everything else—other colors, their 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. When using the So once you pick your base color, triadic scheme, you can just draw an equalateral each color should triangle (three equal sides), and be equally spaced pick your other two colors: around the wheel. For you math buffs out there, that's 120 degrees all the way around. Because all the colors in a triadic scheme are equally spaced around the wheel, any color in the palette can be the base.





We used the deep green as our base color... and came up with the palette below. What colors did you choose? Did the combinations surprise you?

SampleRate This green seems like a logical choice for a base color. Plus it's easy to match on our color wheel. The base color Both these colors are about the same distance from our base color.



Did it surprise you that some of the colors in your triadic scheme were so different from the SampleRate logo? Do you think that's a problem?

Get started on the SampleRate markup

```
Our standard XHTML
                                                                 Strict header.
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en"> <</pre>
<head>
  <title>Sample Rate</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  <link rel="stylesheet" href="stylesheets/screen.css" type="text/css"</pre>
        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?

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
                             detail to let Sam really
#nav {
       background: #ccc;
                             get a feel for our design.
#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;
}
                      Remember, this it the board Sam
                      liked ... here's what we're going for.
```

Great, I've got circles on my pretty little color wheel. How do I turn that into CSS? I need those funny hex values, right?

We need a digital color wheel.

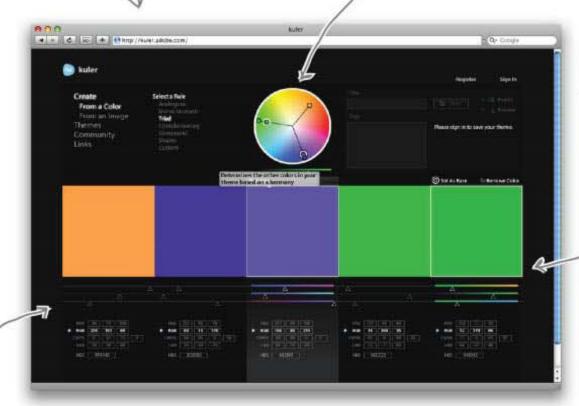
CSS requires hexadecimal values for all but the most basic colors. Hex values are 6 characters long, like #572266. A hex value tells the browser how much red, green, and blue to display. So we need a way to take the values we chose on the color wheel and turn them into hex.

Fortunately, there's a program perfect for the job: Kuler (available at kuler.adobe.com). Kuler not only has a digital color wheel and hex-conversion tool, it lets you check out other people's palettes and even export your own palettes.



Kuler allows you to select different patterns and see how the colors work together.

Our familiar color wheel



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

Sliders allow you to make small adjustments to colors, and Kuler automatically adjusts your other colors to fit the color scheme you've chosen.

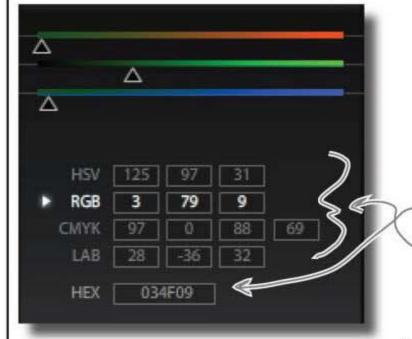
Stop! Go load
Kuler by going
to kuler adobe com
now. You'll see it
throughout the rest
of the chapter.

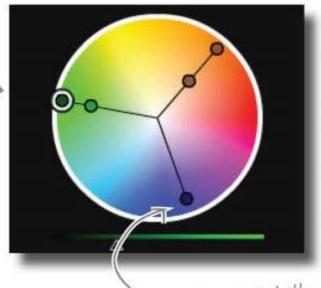


Kuler Up Close

Kuler's color wheel lets you interactively select base colors and then build palettes with different schemes.

The slider view lets you adjust colors with more detail and also displays the selected color in multiple formats.





Kuler doesn't show a triangle, but it's the same idea: the triadic scheme uses three colors, equally spaced on the wheel.

Kuler displays the hex value for a color, as well as its hue-saturation-value (HSV), red-green-blue (RGB), and cyan-magenta-yellow-black (CMYK) values. You can even get LAB values from Kuler.



Some of Kuler's features require an Adobe ID.

In order to take advantage of Kuler's more advanced features (especially the social stuff), you need to have an Adobe ID. Don't worry, signing up is easy, fast, and free.

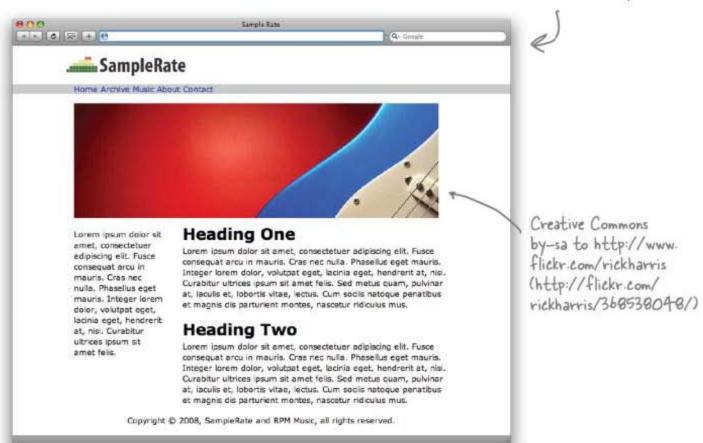


Use Kuler to take the base color you selected in the previous exercise and build a digital color palette based on the triadic scheme. Once you have your palette, add the hex color values to your SampleRate CSS file and see how they work together. Use your colors for the background colors of the various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

SampleRate, minus any color, is pretty bland.





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.

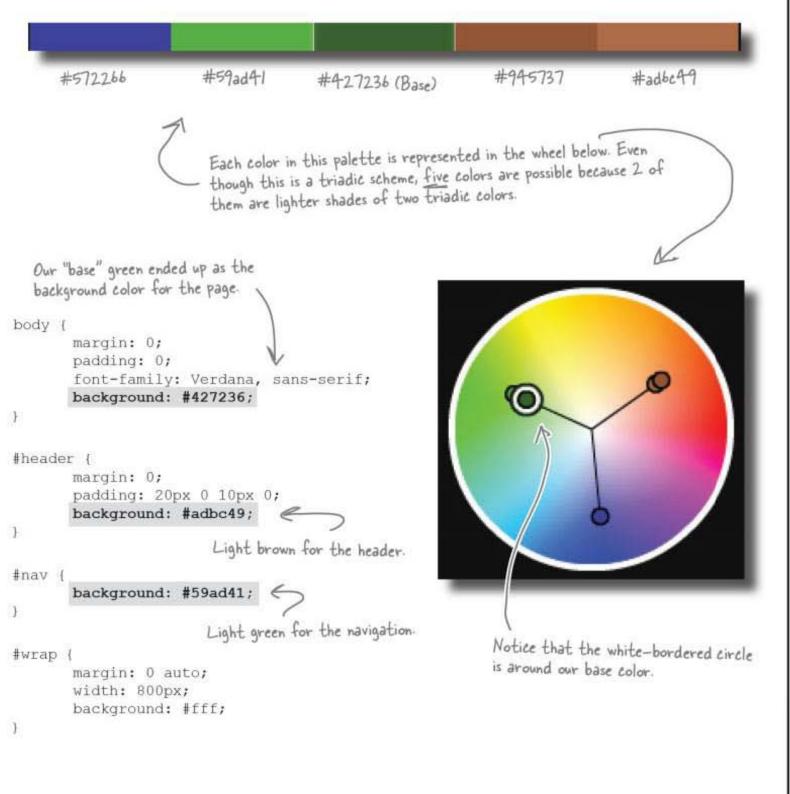


The handle with the white ring represents your base color in Kuler.





Your job was to pick some colors on the color wheel, and fill in the CSS for SampleRate using those colors. What did you come up with? Here are the colors we chose:





We made the wrap <div> background white so the content of the page stands out a bit better... that makes it more readable.

Dumb Questions

Q: What happened to our blue color?

A: Good question. We just couldn't find a natural place to use that color, although it might work well for the link color for text. Just because your scheme results in 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!

Where did that light green come from?

A: Kuler gives you lots of varying colors when you're choosing a scheme, including lighter and darker versions of colors you've already chosen. Those additional colors will go well with your scheme, and that's where our light green came from.

My version of SampleRate looks totally different!

A: Good! Your siles should reflect your choices and your client's tastes.

The opposite of heavy is... light

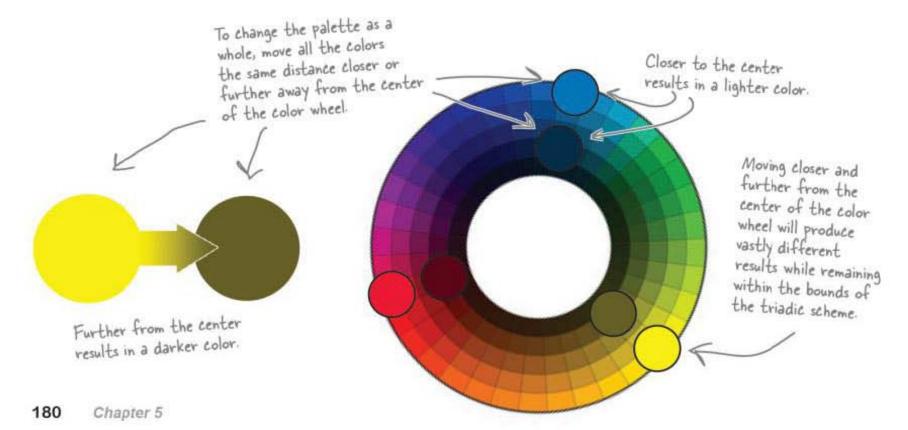
Sam thinks SampleRate looks heavy. That's not surprising... remember, color causes people to feel things more than any other type of web element. So what do we do about a site feeling heavy? Well, we try and make the site feel lighter.

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.





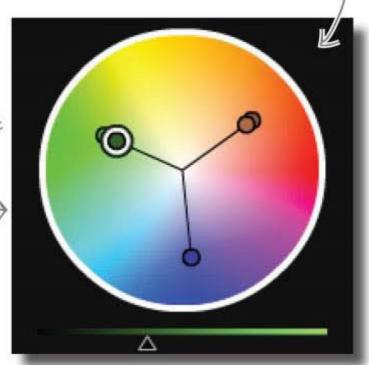
The feel of this site really changes as the color saturation is adjusted.





Each color in this palette is represented in the wheel below. Even though this is a triadic scheme, five colors are possible because 2 of them are lighter shades of two triadic colors.

You can grab the circles and move them around on the wheel. Because you have "Triad" selected, you don't have to worry about messing up your scheme.



Select a Rule

Analogous Monochromatic

Triad

Complementary

Compound Shades

Custom

Remember, we're still using the Triadic (Triad) color scheme.

Sharpen your pencil

Adjust the saturation of the colors on the SampleRate site and change the values in your CSS file, starting with the colors below. How do the new colors change the feel of the site?

#363aa6 #59ad41 #427236 (Base) #945737 #ad6c49

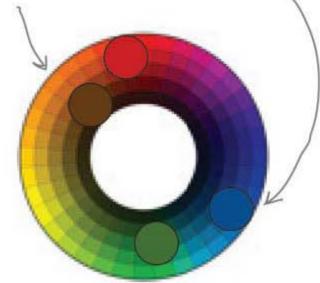


Create a richer color palette with the tetradic color scheme

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 tetradic scheme are in pairs across from one another and about 20 degrees to the left or right of the other pair.





Create a new color palette for SampleRate based on a more complex color scheme like tetradic (split complimentary). Use Kuler to find the hex values for the colors you choose.







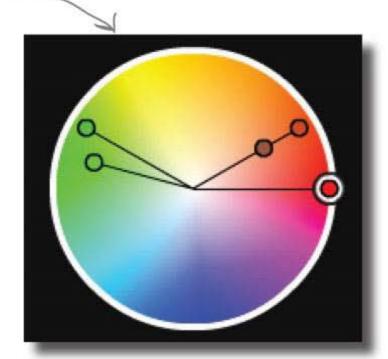
Set this as the base color in Kuler and play around with the controls until you find a palette you like (make sure you select the "Compound" option from the Rule menu).

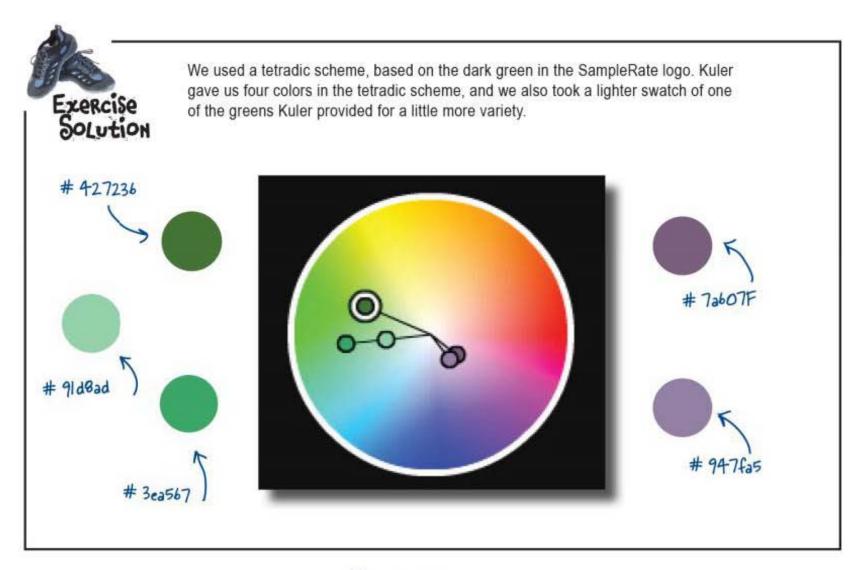
We're going to use tetradic, but if you want to experiment with another color scheme, go for it!

You should see this setup when you work with compound color schemes in Kuler. Notice the four handles on the color wheel you can adjust now.

Select a Rule

Analogous Monochromatic Triad Complementary **Compound** Shades Custom





Dumb Questions

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

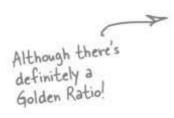
Do I really need to use a color scheme to create a good color palette? Seems like a lot of work to go through when I can just pick some colors off the color wheel.

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.

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.

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?



There's no golden rule for color placement.

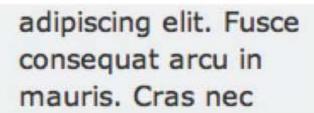
There really isn't a set of rules that will always work for all sites. What looks great for one site's structure could look awful for another site's layout and design. On top of that, you've got to match your site's theme and visual metaphor.

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.



The background of the page and the text area use highly-contrasting 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.



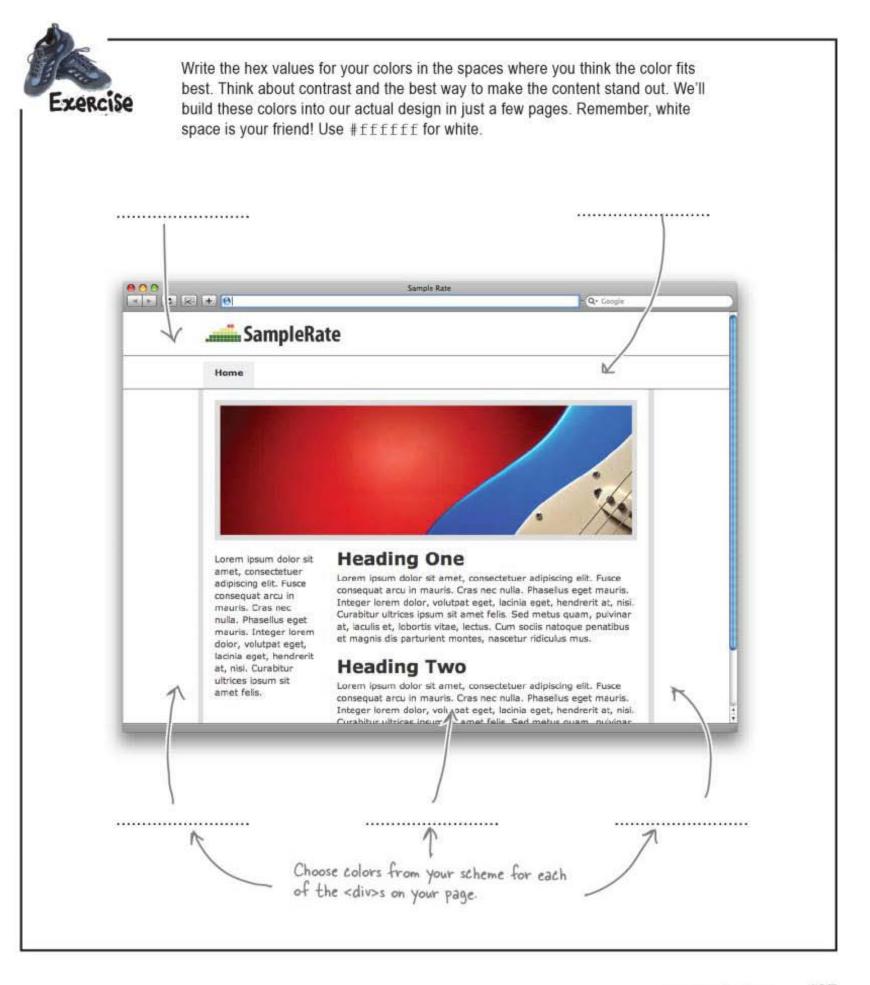
Here, contrast and a dominant color are used. There's a contrast between the Home tab and the dark background. But the tab is emphasized against the very dominant brown background.

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.

```
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 20px;
                                                    margin: 10px 0 0 0;
      text-decoration: none;
                                                    font-size: small;
      color: #fff;
      font-weight: bold;
```

All the blanks are places we







Hey, that's really nice! I like it... but listen, I did some branding research, and everyone thinks my logo is too "analog." So I've got a new one, much more Web 2.0. You can fix the site to use this, right?

The new "Web 2.0" version of the SampleRate logo is complete with gradients and bold fonts. The icon has also been slightly reworked.





We've got a whole new logo! Your job is to update your color palette to fit the new design, and add the new hex color codes to your SampleRate CSS file.

- Select a base color from the new logo (your choices are a bit more limited this time).
 - Write the hex code of the base color you chose here (use Kuler).
- Use Kuler to develop a color palette that meets the new SampleRate site's needs (and that of the site's content). Write the hex color codes you chose in the blanks below:
- Update your CSS file to reflect the new colors. Experiment as much as you like!



Your Web Design 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).



"In 2 seconds, click 'Home'." *





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!





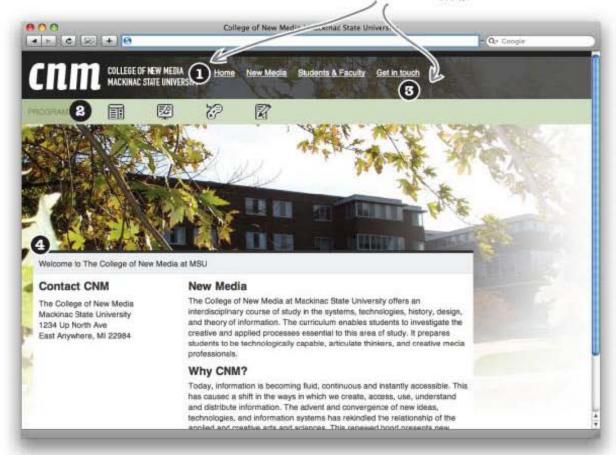
Take a look at the screenshot of the current CNM site. First, circle all the different areas of navigation. Then, list any problems you find in the blanks below the screenshot. Be thorough, and remember, both students and faculty are using this site.





Your job was to find all the potential navigation problems on the CNM website. What did you come up with?

Each numbered item refers to a problem we



- The titles of these links leave (3) users wondering what to expect when they click them.
- These look like icons for the different programs. Not sure what they mean though.
- 0 It looks like the designers skipped the navigation. Needs some style work.
- Will this always be a title? Will more navigation show up here? I'm confused...

Most of this is about crappy link names, right? Can't we just go in and fix those?

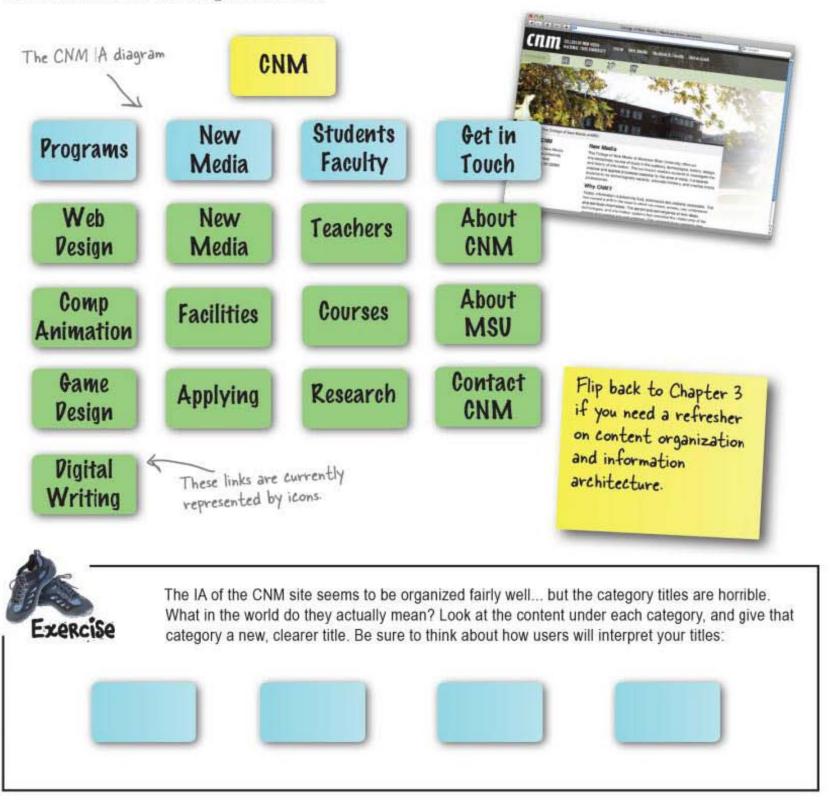


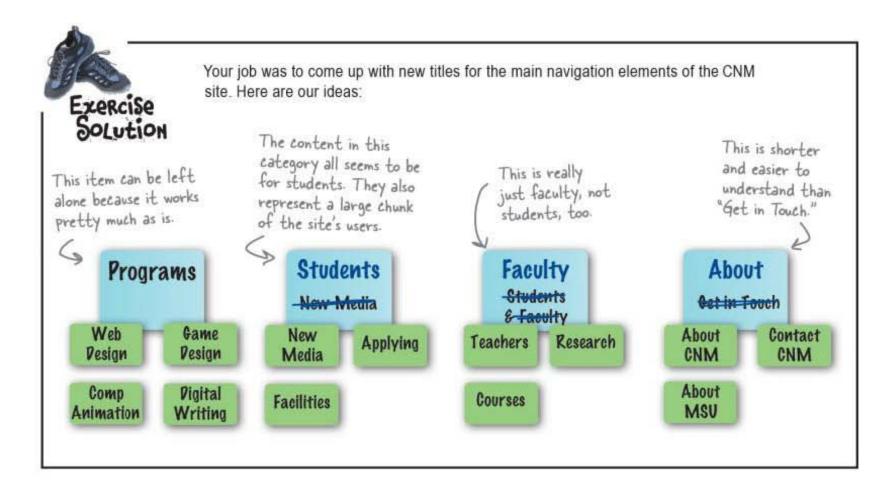


The first step in good navigation is good IA

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 <u>descriptive</u>**. 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 wen't be, either.

Dumb Questions

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.



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.

Update the main CNM navigation links.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <title>College of New Media | Mackinac State University</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  <link rel="stylesheet" href="stylesheets/screen.css"</pre>
        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 IA diagram.
</html>
```

Check out the site and make sure things look right.



0

I've been taking a close look at these nav links. They're just in <a> tags, right? Should we do anything to make those links related to each other? They're all navigation, right?

The Web is both VISUAL and SEMANTIC.

We've mostly been focusing on how sites look, but there's another element to the Web: the semantic Web. Right now, our navigation links look good, but they've got no meaning. Really, those links are a list of items that are all part of the site's navigation.

What we need is a way to give some semantic meaning to our list of links. Of course, XHTML gives us a couple of list elements, so let's start there:

Give the a unique ID so that we can style it differently from other lists that may appear om the site.

By giving the link of the page we are currently on an active state, we can add a style that helps users know what page they are on.

Home

Blog

Portfolio

Contact

This id also uniquely

identifies this list as

a list of navigation

elements: that's

semantic meaning.

A standard link tag goes in between each list item creating the list of links.

Dumb Questions

Q: Why do semantics matter if things look good on screen?

A: Good question. For one thing, you can write much more specific and functional CSS rules if you're identifying sections of your site semantically. But even more importantly, semantics are a big deal when disabled users access your site. We'll talk a lot more about site accessibility in Chapter 8, so hold that thought a little longer.

This is what the link list will look like with no CSS applied.





Before we can start updating the look and feel of the CNM navigation, we need to get the main nav into an unordered list. Take a look at the main XHTML and CSS for the site file and update the markup and rules to work with an unordered list.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
        "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"/>
  <link rel="stylesheet" href="stylesheets/screen.css"</pre>
         type="text/css" media="screen" />
</head>
<body>
  <div id="header">
    <img alt="cmn logo" src="images/cnm logo.png" />
                                                                                     index.html
  </div>
  <!-- etc. -->
                                                              Add the new navigation link list to the header of the CNM site.
</body>
</html>
#nav (
                                         Once you change the markup, you need to
                                         adjust the CSS so that your navigation
                                         looks the same. Add some rules to get the
                                         navigation looking like it did when before
#nav li a (
                                         you changed the markup.
                                                                                     screen.css
```



Now that you've got a good idea about the primary and secondary navigation, its time to put your newfound knowledge to work.

```
to work.
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
      "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"/>
 <link rel="stylesheet" href="stylesheets/screen.css"</pre>
       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>
   </div>
 <!-- etc. -->
</body>
                                    We changed the  tags to 's and added the
</html>
                                    appropriate </i>

#nav (
 float: left;
 width: 460px;
                                        We floated the whole navigation to the
  height: 75px;
                                        left so it appears next to the logo in the
  font-size: 1.4em;
                                        upper left corner.
#nav li a (
                                     Like the nav , we floated
  color: #fff:
                                     each link to the left so that they
  float: left:
                                     appear inline instead of in block
  padding: 20px 20px 20px 0;
                                     form (which is the default).
                                                                screen.css
```



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?



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>
```

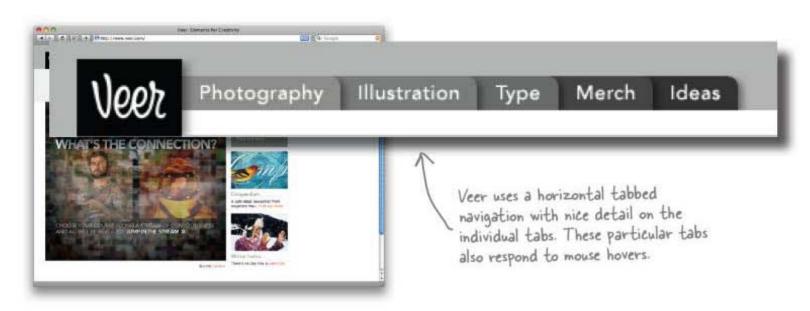
Home Blog Portfolio Contact

A simple, horizontal navigation.

```
#navigation (
       margin: 0;
       padding: 10px;
       list-style-type: none;
       border-bottom: 1px solid #ccc;
                               This rule changes the <1i> 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.
```







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;
    padding: 0;
    list-style-type: none;
    width: 200px;
}

#navigation li {
    border-bottom: lpx solid #ccc;
}

#navigation li a {
    text-decoration: none;
    color: #777;
    display: block;
    padding: l0px;
}

#navigation li a.active, #navigation li a:hove background: #eee;
```

Home
Blog
Portfolio
Contact

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.

color: #333;

Just by slightly changing your CSS, you can create a whole different navigation layout

}

This is a simple, stacked vertical navigation with a cool wrap—around effect on the links. Notice how the navigation pulls it's theme from the header logo of the site.





It can't get any simpler than this. Short, stacked, easy to find and read.

This is almost like a vertical tab. The nav runs the length page, and when a link is active, it's background matches the body content.

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.



I don't want to radically change our design, so let's stick with horizontal navigation. But can you make the links a lot more obvious? It seems so confusing right now...

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.



0

Sharpen your pencil

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.



Using the header overlays below, sketch three different navigation designs for the CNM site. Think about consistency and how familiar your scheme is going to feel for a typical user.









How did your navigation design go? Were you able to come up with some ideas that clearly followed the three navigation principles we looked at back on page 208?



Tabs would be a familiar option for users, but they wouldn't quite work with the overall theme of the site.

Tabs are intuitive, clearly clickable, and distinct from one another. That's why they're so popular for navigation.



These are a lot like tabs, and the dividing lines make each link look more clickable to an average user.

This block-style navigation is a nice fit with the CNM site and will be quick and easy to implement.



This navigation is close to what CNM already has. It's basically a cleaned up version with a rounded background on the active and hover states.

The big change here was making sure the links stood out more and were more obviously something that could be clicked on

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...

Frank Joe

0

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

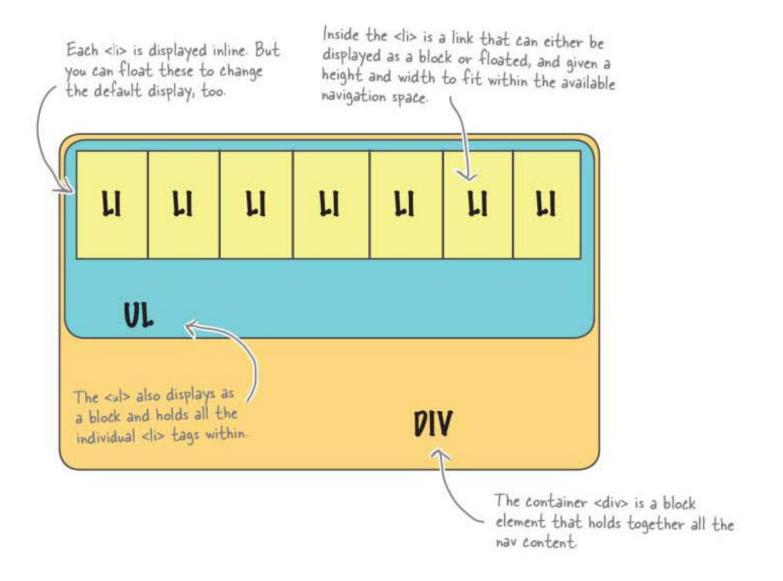
Block elements (like paragraphs and headings) literally form a block from one side of the page to the other. And by default, block elements are as tall as the content they contain.

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:

```
     <a class="active" title="CNM Home" href="index.html">Home</a>
     <a title="#" href="#">Students</a>
     <a title="#" href="#">Faculty</a>
     <a title="#" href="#">Each of these s is a block element
```

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:



Let's float the block navigation on the CNM site

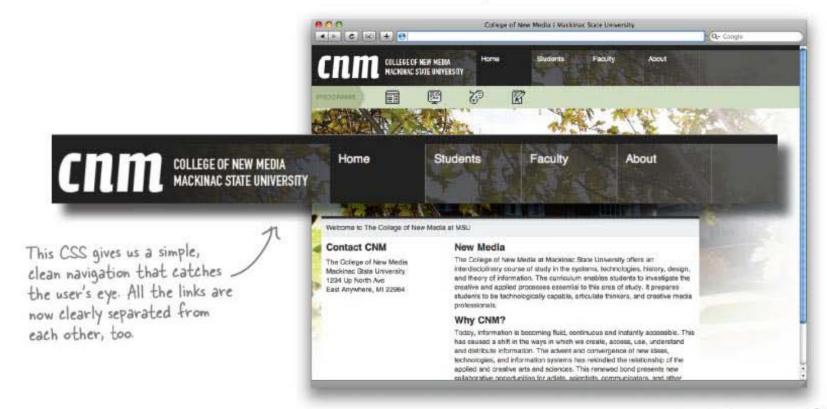
If we think of each i > in our navigation as a block, then we just need some CSS to style those blocks. We can add borders to separate each block, and make sure each block is positioned related to the previous block.



screen.css

Make these changes to your version of screen.css:

```
#nav {
        float: left; <
                                         Because the #nav () is a block element, it's going to want to
        width: 460px;
                                         wrap below the header logo. To fix this, we need to float the 
        height: 75px;
                                         left and give it a fixed width, so it displays next to, not below,
        font-size: 1.4em;
                                         the header logo.
#nav li a {
        float: left;
                                             Like the , we need to float the links to the left,
        width: 104px;
                                             as well to mimic a block style. We'll give the links a
        height: 65px;
                                             fixed height and width that will give the nav items a
        padding: 10px 0 0 10px;
                                             consistent look regardless of the length of the text
        color: #fff;
        text-decoration: none;
        border-right: 1px solid #777;
#nav li a.active {
                                       A dark background on the "active" class will give
        background: #222;
                                       the current page link a distinctive look and let
                                       users know where they are in the site.
```



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!

Here's what Jim's referring to... these are just below the header of the CNM site.



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



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!

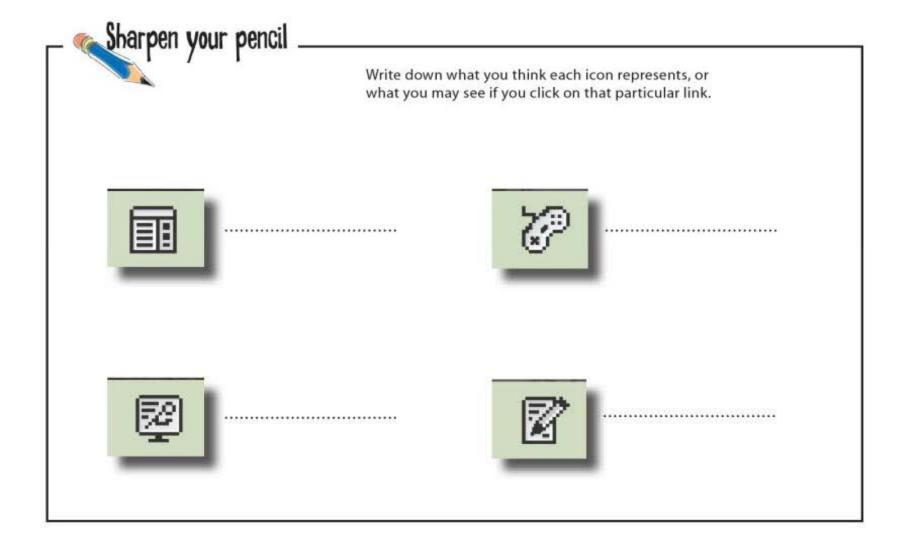
Icons don't SAY anything... they just look pretty

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?.

Even this is debatable.

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?





Here is what the College of New Media says each of the icons mean. How close were you? If you got even two of these right on, then you get the Ambiguous Icon Detective award for the day...

This icon represents a webpage and is meant to indicate the web design program at CNM.



Web Design

The gamepad was used to represent the video game design program. CNM thinks this is a totally obvious icon.



Game Design



Computer Animation

This icon is supposed to represent a man running on a computer screen. It links to the computer animation program.



Pigital Writing & Rhetoric

This is a commonly used icon—the classic pen and paper. In this case, it represents the digital writing and rhetoric program.

Woah, those icons are in all of our promotional material. We can't lose those... it's just not an option.



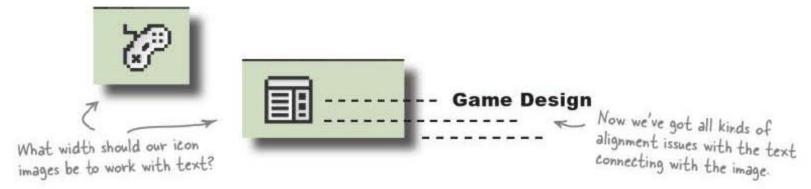
When in doubt, ADD TEXT.

Sometimes you're gonna get stuck with a bad display element, or perhaps just some meaningless or confusing icons. If you're not able to make major changes, one easy fix is to simply add text, clarifying the icons or explaining how to use a particular page element.

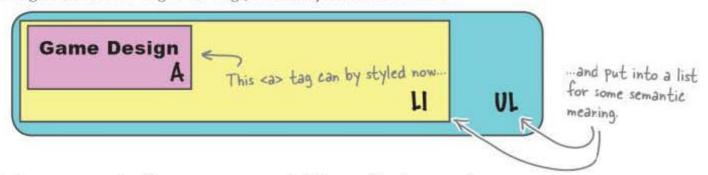
A little bit of clarifying text goes a long way to let a user know what to click or where to go on a page.

Add icons to your text, not the other way around

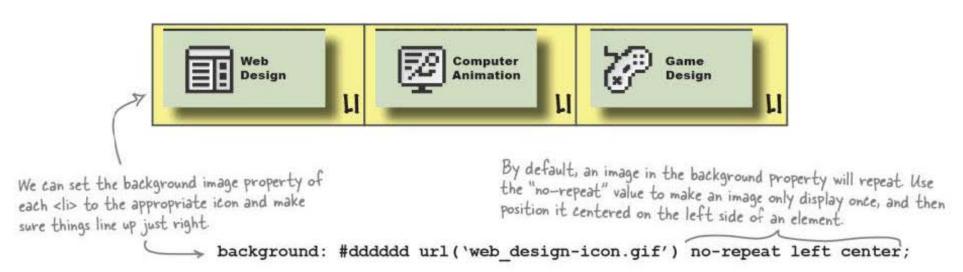
Right now, the four CNM icons are little images inserted into the XHTML. If we want to add text descriptions of those icons, we'd need to squeeze the text between each icon, potentially resize the icon, align the text with the image... and things get pretty complicated fast.



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.



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"</p>
       "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"/>
  <link rel="stylesheet" href="stylesheets/screen.css" type="text/css"</pre>
        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 # sian.
This link list should be very similar to the
main nav link list. Just make sure that you
                                      Each link has it's own class so we can
give the container <div> a different id.
                                      assign the right icon to the background.
```

index.html

Now we can style our new block elements...

Now you can add these rules to 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;
       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;
#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 value 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;
```



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.



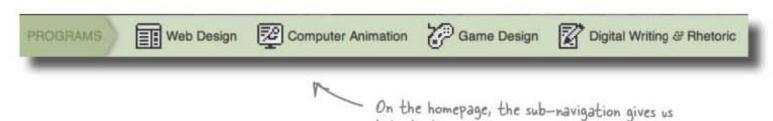
Primary navigation shouldn't change... ...but secondary navigation SHOULD

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.

This is our primary navigation.—

Home Students Faculty About

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.



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?



Create a page for each main section of the site: Students, Faculty, and About (you've already got Home as index.html). Just copy and rename index.html over to three more files. Then, for each new page, change the title to match what that page is about.

Next, use the IA diagram on page 198 to update the secondary navigation on each new page (don't worry about the main text content for now).

Primary navigation applies to your **ENTIRE** site.

links to the various course programs available.

Secondary navigation applies to the <u>CURRENT 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"</pre>
                                                                  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
    <l
                                                                      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 IA 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 © College of New Media at Mackinac State University
    </div>
  </div>
</body>
</html>
```

students.html

Let's style the navigation with our CSS

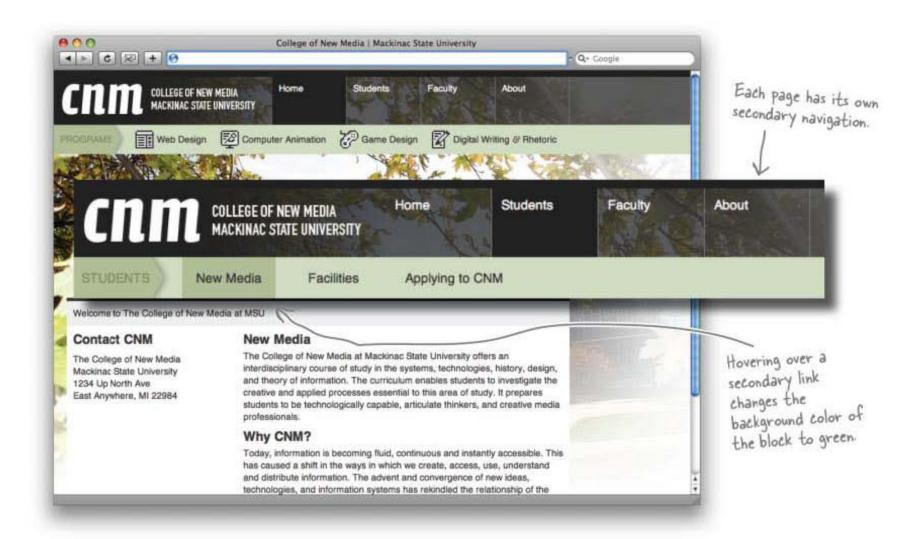
Now that we've got some actual secondary navigation in place, we can add some CSS rules to style the sectional pages. Each sectional page will have a body with a class of "page," so we can style those separately.

```
#subnav (
        margin: 0;
        padding: 0;
        background: #d2dbc0;
        height: 46px;
#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.
```



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 Design 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.

7 writing for the web

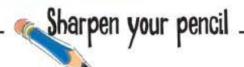
* Yes, you scan!

Wow, these articles are great. I wish they were available online so we didn't have to share this paper.



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.



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 ver	sion:
Time to read print versi	on:
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!



0

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.



Grab a stopwatch and take exactly 20 seconds to read the block of text on this page. Then answer the questions below the text. But don't cheat: look at the questions only *after* you've read the text.



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 manufacturers 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.

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0	What was the name of the home PONG clone that Coleco released?	J
8	What was the name of the man who founded Coleco?	
3	Who was the president of Coleco in the 1970's?	

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.

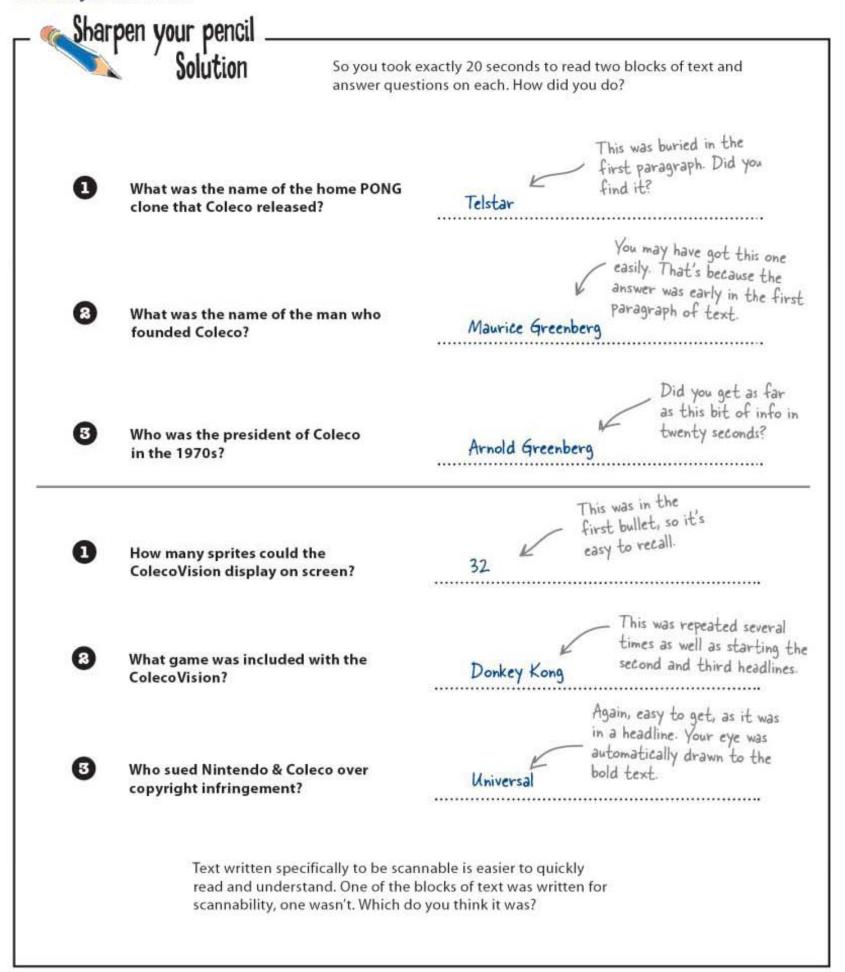
Donkey Kong: Legal Problems with Universal

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.

0	How many sprites could the	
	ColecoVision display on screen?	
0	What game was included with the ColecoVision?	50.00.00.00.00.00.00.00.00.00.00.00.00.0
©	Who sued Nintendo & Coleco over copyright infringement?	***************************************



Build a better online newspaper

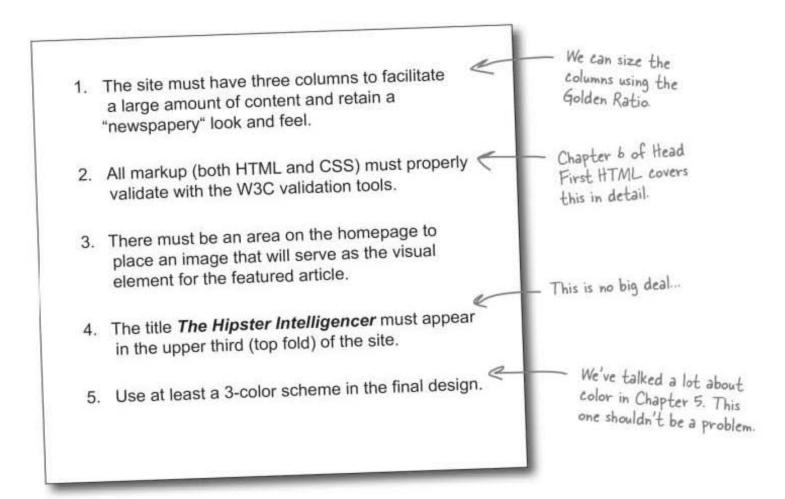
A local alternative newspaper was so impressed with the successful launch of the RPM record store site that they've decided to hire you to create an online version of their print newspaper.

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 layout—it's writing text for the Web. This new site's the last chance to save their paper, so they really need your help...



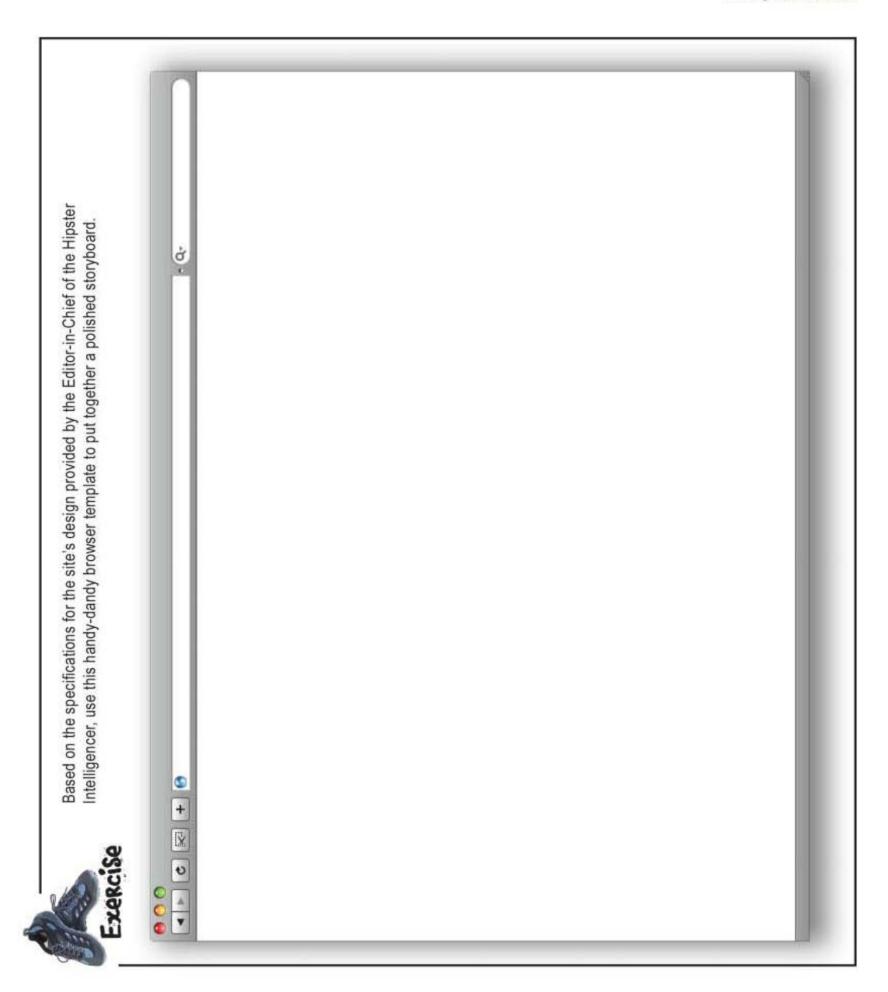
Hipster Intelligencer Online: Project Specs

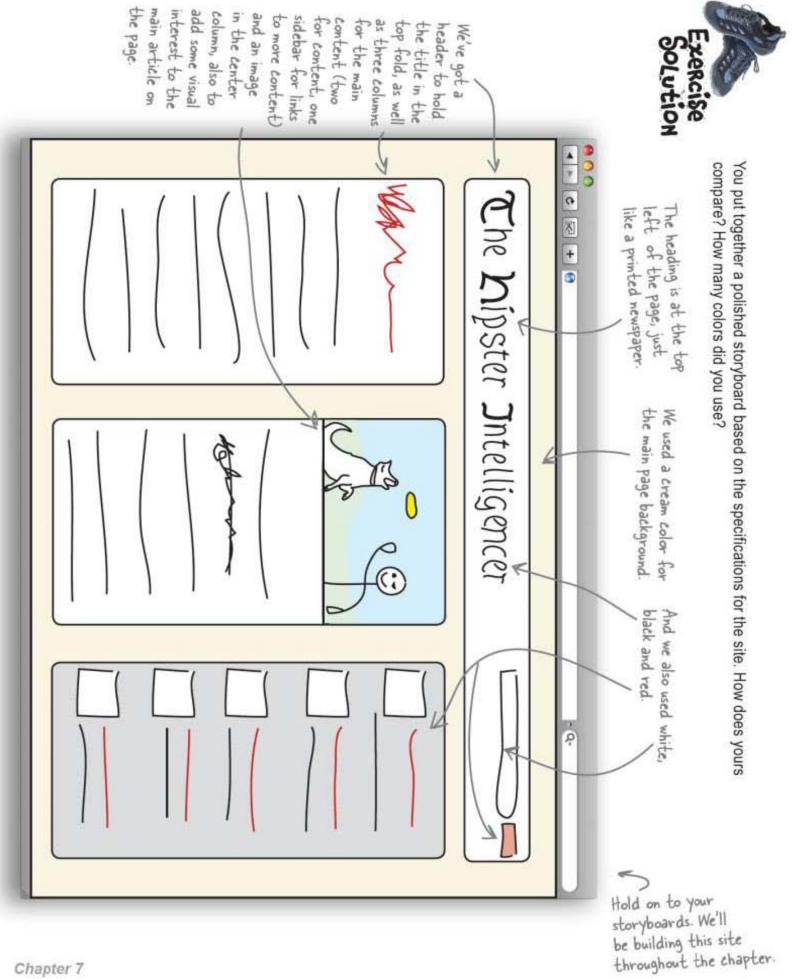
Before you get started, the paper's sent over some specs. This will help you refine the look and feel of the site you're building for them.



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.







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

```
<!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 Hipster Intelligencer</title>
     <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
     <link rel="stylesheet" href="redlantern.css" type="text/css" media="screen" />
                                                    Don't forget to link
your CSS file!
</head>
<body>
   <div id="wrap">
     <div id="header">
                                                     /* The Hipster CSS File */
                                 These <div>s will
     </div>
                                 hold our content
     <div id="content">
                                  and graphics.
                                                     body (
        <div id="main">
                                  We'll position
                                  them with the
        </div>
                                  CSS at right.
        <div id="center">
                                                    */
        </div>
                                                    #wrap {
       <div id="sidebar">
        </div>
      </div>
                                                                     Remember the # sign
                                                    #header (
    </div>
                                                                     represents an id in the
                                                                     HTML file.
  </body>
  </html>
                                                    #content (
```

Stop! Be sure and create these two files before you move on.

Now we need some content so we can add some style...

```
CSS comments: The
                            browser just ignores these,
                            so go ahead and type
                            whatever you want
 Add global rules here (h1, h2, p, u1, etc...)
#content #main {
#content #center {
#content #sidebar {
```

Wow, this is coming along great!

Could you use this article I've written to show me how content will look in the design?

The Hipster Intelligencer

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 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 partnership 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



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.

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

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

Dumb Questions

O: 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?

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.

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.

loooooong text

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

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 control 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 control to manufacture the company's core Dungeons & Dragons Entertainment.

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

e money 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 egained partial control of the company. However, unbeknownst to

tertainment markets, such as movie and television. Unfortunately, TSR Dungeons & Dragons cartoon. Upon multiple occasions, Gygax had said

as keeping foreign income away from US taxation.

brought into are 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 Magie: 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



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.

- · 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.

0

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.

2

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?



You read two pieces of text until you felt you'd gotten the gist of what each article contained. Which one did you stop reading first? Let's take a look at the first two sentences of each opening paragraph:

Text block was written with the inverted pyramid.

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.

We learn a lot about what we can expect in this article from the first two sentences.

0

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Boring stats like the size of plastic miniatures aren't good opening material. No inverted pyramid here!



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, unbeknownst 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?

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...

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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?

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



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

The Hipster Intelligencer

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 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

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



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 Gygax, agains designer from Lake Genevo, Wisconsin, and Don Kaye founded Tuction! Studies Rules in order to publish the rules for Cavaliers and Roundheads, a miniature war game based in the Beglish Civil War. While Cavaliers and Roundheads was the initial focus of Tactical Studies Rules. Gygax and Kaye dos wished to points the rules for Dungeone's Dragons, a funtary miniature mice playing game developed by Gygax whose rules were based on Chairmad, a needlevel miniature game developed by Gygax and Jeff Ferran in 1971. As Cavaliers and Roundheads began generating revenue for "actical Studies Rules, the partnership was expanded to include Dave Ameson and Bissa Blame. While Dave Ameson was beought into the purcovership as a game designer, and left shortly threather. Betten Blame entered as a funder. Blame believed that Cavaliers and Roundheads was not generating exough revenue, and encouraged Gygax and Kaye in focus their efforts on releasing Dangeons & Dangeons.

There is considerable debate as to the coerrhetines that Dave. Ameson made to the initial development of Dungeons & Dragons. While Ameson has labeled himself. The Father of Role-pisoing, and has said that he was responsible for writing the game in its entirety, Dygax contends that he himself was primary responsible for the development of Dungeons & Dragons, and Ameson's involvement, while important, was contributery. After Tactical Studies Builds was dissolved, and TSR Hobbies, Lic. was formed. Ameson continued to receive credit for his involvement in the development of Dungeons & Dragons, as well as mysites per his contract.

In 1975, after the highly successful release of Dangeons & Dragons, Don Kaye died of a stroke. The immediate result was that Blume and Gygas dissolved Toolson Studies Rules and founded a new acceptany named TSR Hobbies, Inc. The board of directors for TSR Hobbies, Inc. consisted of Brian Blue, Gygas, and Kevit 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 setted as President of Creative Affairs, while Kevin Blume acted as President of Operations, and Gygas acced as the company's CSO and President. Utilize the equal perturnship of Tactical Studies Rules, Brian Blume & Kevin Blume owned a responsy of the new company's States.

britially, TSR (flobbins, Inc. experienced phonomeral success in both the United States and abreed. Uniformizately, despite the fact that the Durageons & Dragons brand was becoming more popular and widely recognized, the Blance's began to greatly overexismil the company's reach. They not only moved into domains such as boardgames and toys, but they began to diversity in structure, a neediport business owned by one of the Blance's states, in addition, TSR Hobbies, he was remarkably oversualfied the result of the Blance's reportancy. Further, Keyla Blance had grossly overprised millions of coopies of the previously successful main-path Durageons of Designons to describe blocks, all of which result on the sold. In me effort to miligate the marriing financial problems, TSR Hobbies, Inc was restricted into four companies: TSR, fine., TSR Designons of playing products. TSR Ventures focused on the production of plastics and toys in Asia. TSR International was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there, licensing and production. TSR Enternational was established to manage overseas business, distribution and sales there. In Constitution of Uniformized, 15R Enternational for large and the sales of Uniformized the reportation, was responsible to the sales and the sales of Uniformized the supersi

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The departure of Gygus from TSR irreparably changed the face of the company. TSR successfully expended into areas such as magazines, paperback fiction, and comic books. In addition, the company released popular new role-playing settings including Disportaines, Ravenioth, Porgotters Rusines, and Greybawk, all of which have had an enduring impact on the labbleop solephying landscape.

However, the company was unable to adapt to the command fragmentation of the tabletop RPG community as new product were released by other companies. In addition, in an effort to compete in the emergent collectible cord game market, TSR released a series of products, such as Dragoti Dick and Speliffler, which simply did not self. The downward financial sperial real agreement by the fact that, as their products continued to perform poorly in the marketplace. TSR began to legally strack those who is believed infringed on its intribution importry. The negets of these legal actions included not only other corporations and businesses, but individuals fans involved in authoring fan fiction and D&D fun 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. Invaicably, Wizards of the Coast, which was now widely considered to be the pretrained tabletop role playing game company had been responsible for publishing Magis: The Gathering, the game whose remarkable soccess had been responsible for TSR's failure in the coffeetible card game market. After the sale to Wizards of the Coast, which continues to publish Durapoons & Dagons to this day, TSR was slowly dominated. In 2003 the final TSR trademarks were allowed so expire by Wizards of the Coast.

Despite its almost consum 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 thiny computer cole playing games based on the architypes and mechaniss first introduced in Dangeros & Dragers, but many of the history of digital games were greatly influenced by TSR and its various modern. TSR's products have long since passed into the maint of popular culture.

Founded in 1973 by Gay Gygax and Don Kaye as an eventual means to publish, sell, and distribute the rules of Dungsons & Dragons, TSR went as so become one of the most noteworthy companies in the extentainment game industry. While Dungsons & Dragons went on so have a significant lasting impact on both digital and som digital games, TSR, as a corporate entity, in perhaps best known for its financial wees and the hitter conflict that sees over ownership of the company and its intellectual property.

Scannable web copy:

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has content ordered by the inverted pyramid



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

Dumb Questions

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.

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.

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!

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?



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 Ameson 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. Brian was President of Creative Affairs, Kevin was President of Operations, and Gygax was the 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 boardgames 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: TSR, Inc., TSR Ventures, TSR International, and TSR Entertainment. 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 was established to manage overseas business, distribution, sales and licensing, and production. TSR Entertainment was 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.

Despite the restructuring, TSR, Inc. continued to lose money as a result of mismanagement. Eventually, both Kevin and Brian Blume were accused of misusing corporate funds and accumulating large debt in the pursuit of unapproved and inappropriate acquisitions and removed from the board of directors. After the Blumes' departure from the board of directors, Gygax assumed the role of CEO and regained partial control of the company. But 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 the majority stock. When Williams finally acquired the controlling stake in the company, Gygax tried to have the sale declared illegal. The attempt failed, and so Gygax sold his remaining stock to Williams and used the capital to form a new company called New Infinity Productions.

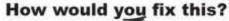
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In 1997, as TSR approached receivership, the company and all of its intellectual property were acquired by Wizards of the Coast. Ironically, Wizards of the Coast, had published Magic: The Gathering, the game whose remarkable success had been responsible for TSR's failure in the collectible card game market. After the sale, TSR was slowly dismantled. In 2003 Wizards of the Coast allowed the final TSR trademarks to expire. Wizards of the Coast allowed the final TSR trademarks to expire.

Despite its almost constant legal and financial troubles, TSR had entertainment game industry than any other company in the his introduced in Dungeons & Dragons, but TSR and its various popular culture.

That's much better, but it still looks like way too much in my browser. All that text on screen's a little overwhelming.

ould argue that TSR had more impact on the d on the archetypes and mechanics first have long since passed into the realm of



You're a web user. What do other sites do to break up content and make it manageable?



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



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]

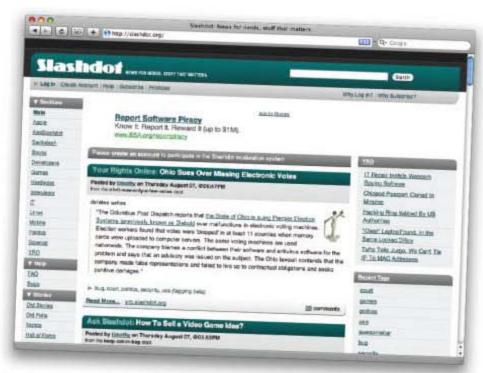
Lists can be used in different ways all over your site. Try them in:

- Your main content
- Sidebars
- Navigation and Headers

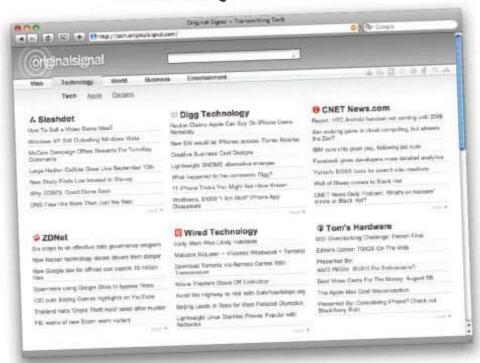
Breaking text into a list allows readers to quickly glance at the text and extract information.



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?



slashdot.org



tech.originalsignal.com



newsvine.com



digg.com

LONG Exercise Solution

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 bullets? Why or Why not?

Slashdot and Newsvine use the inverted pyramid to present content to their users.



Slashdot uses a list-paragraph hybrid. Posts are displayed in a list ordered by date. Each article excerpt has a title and a quote on a dark green background that catches your eye and moves it down the page.

Digg, everyone's favorite technology aggregator, is one giant list. The most recent, most popular "diggs" act as bullets to grab your eye, and they provide a nice clickable link to the story.



digg.com

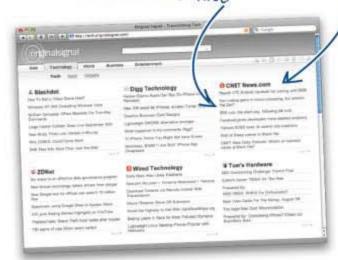
These are our answers. Yours may be a little different, but check the sites again if your annotations are a LOT different than ours.



newsvine.com

Newsvine doesn't use lists as its main layout tool but does a great job of placing them in sidebars and extra content. Notice the bullets in each of the three columns.

Original Signal breaks its content into two sets of lists. The first lists the header for each site. The second is a list below each site's heading with the most recent stories first.



tech.originalsignal.com



Take this paragraph from the Editor-in-Chief's copy you already edited and make it more readable by turning it into a list. Hint: You can use a sentence or two to explain what the list is.

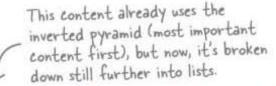
The departure of Gygax from TSR irreparably changed the face of the company. TSR successfully expanded into areas such as magazines, paperback fiction, and comic books. In addition, the company released popular new role-playing settings including Dragonlance, Ravenloft, Forgotten Realms, and Greyhawk,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

Don't worry about HTML yet. Just rewrite this text as a list

Sharpen your pencil

You made this edited paragraph more readable by turning it into a list. Leaving a sentence or two to explain what the list is helps give the user context.

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.



The departure of Gygax from TSR irreparably changed the face of the company. TSR successfully expanded into areas such as:

Notice how a little text before each list gives the list some context.

- @ Magazines

These lists items are fragments, Paperback fiction so they don't need punctuation, but notice that the first word after each bullet is capitalized.

In addition, the company released popular new role-playing settings, including:

- O Dragonlance
- @ Ravenloft
- · Forgotten Realms
- @ Greyhawk

The content that we used to create the lists already listed a number of items, so it was perfect for, uh, lists!

All of these have had an enduring impact on the tabletop roleplaying landscape.

The last sentence needed a small edit now that it follows a list.

Scannable web copy:

has content ordered by the inverted pyramid

has been edited so it's shorter

breaks down content even more with lists

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



Ordered list

```
Top 10 reasons to move to Chicago
   <01>
       Lake Michigan
                                                     4 b C 🔀 +
       The "Chicago-stlye" hot dog
       The "El"
                                                     Top 10 reasons to move to Chicago
        Millenium Park
       Wrigley Field (even if you don't like the

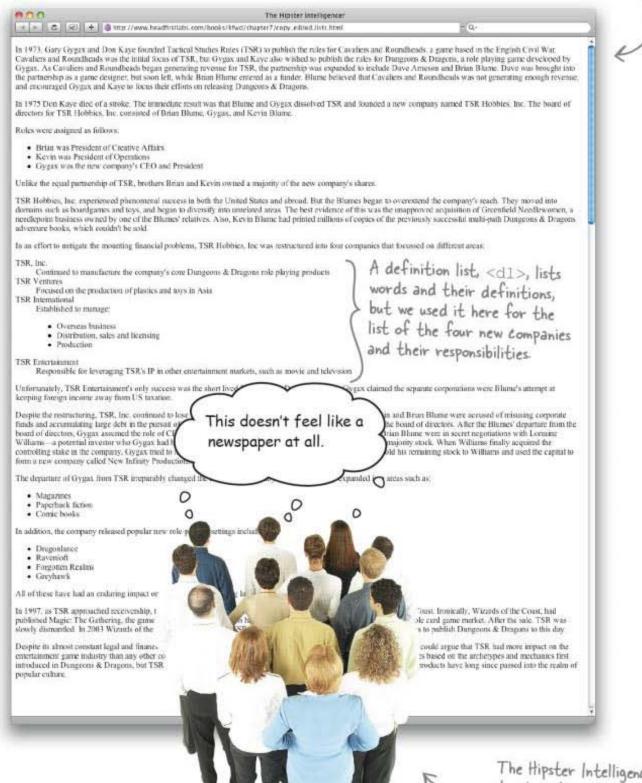
    Lake Michigan

                                                       2. The "Chicago-stlye" hot dog
       The Bean
                                                       3. The "El"
       The Sears Tower
                                                       4. Millenium Park
        Really Deep-dish Pizza
                                                       Wrigley Field (even if you don't like the cubs)
        The Midwest accent
                                                       6. The Bean
                                                       7. The Sears Tower
        intelligentsia Coffee
                                                       Really Deep-dish Pizza
   9. The Midwest accent
                                                      Intelligentsia Coffee
Stop! Create lists in your XHTML before you move on.
```



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



The Hipster Intelligencer's staff are tough critics. What can you do to improve the look of the copy?

even Headings make your text ^ymore 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.



encourage users to scroll down. the bottom of the top fold to

emphasize ancillary content.

... and that content's linked

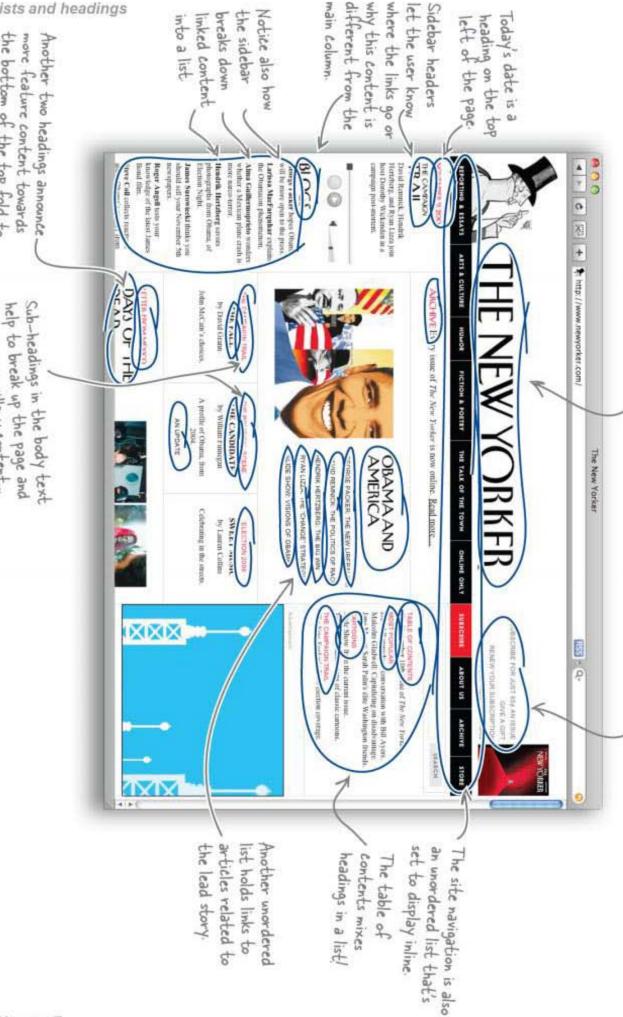
via another heading.



Did you find all the headings and lists?

any place else that wasn't the home page arrived there through a search engine or page and gives the users context if they The main site heading appears on every

> unordered list, . There's no The subscription section is an bullet, but it's clearly still a list





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?

Acoustic Guitar Types

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

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.

Martin Luther

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

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 Geography of Mars

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

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

O: 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.

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.

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.

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.



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.

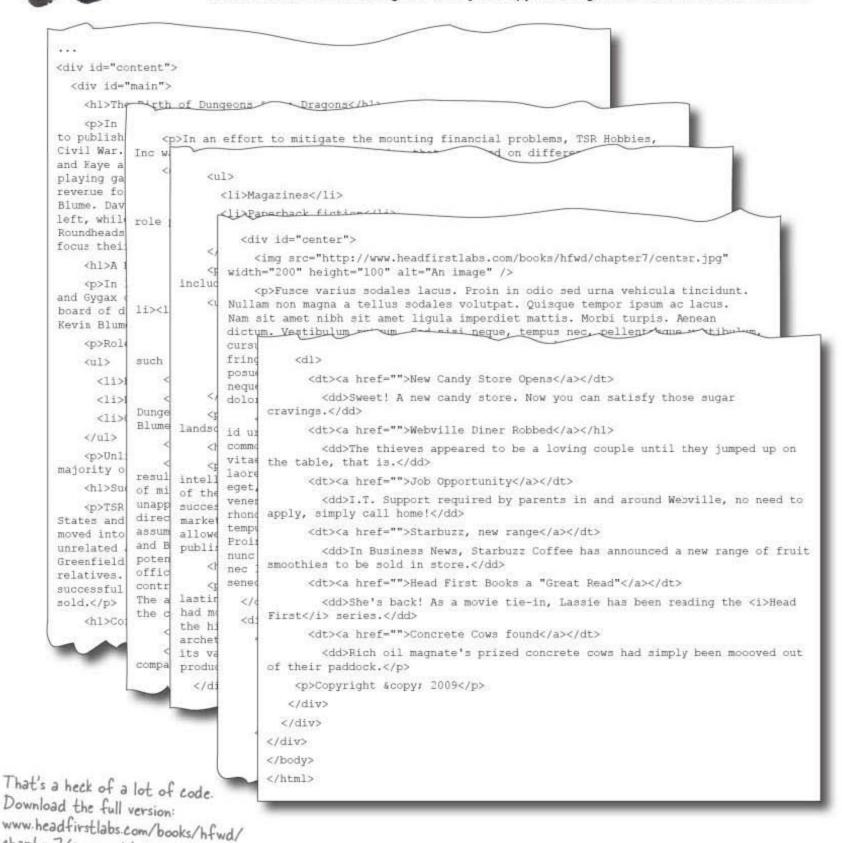
Now write the headings for the rest of your article, and when you're done, change your XHTML file to match.

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.



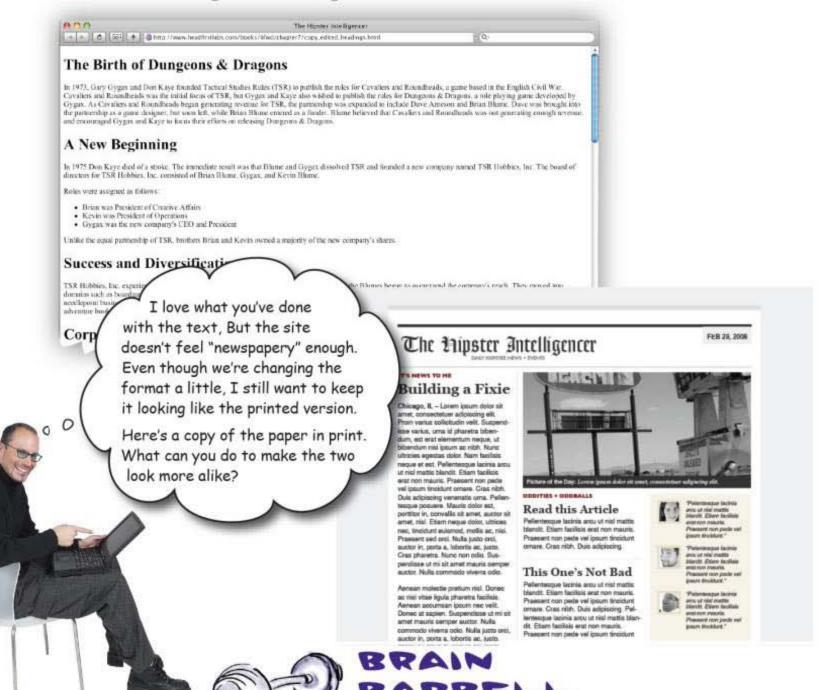
You should now have headings for all of your copy including the center and sidebar <div>s.



chapter7/copy_edited_headings.html



How are those headings and lists looking in the browser?



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.



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



Geek Bits

Serif fonts look like
Times New Roman
and are defined by the
ections—or "serifs"—tha

small projections—or "serifs"—that extend off the main stroke of the character.

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?

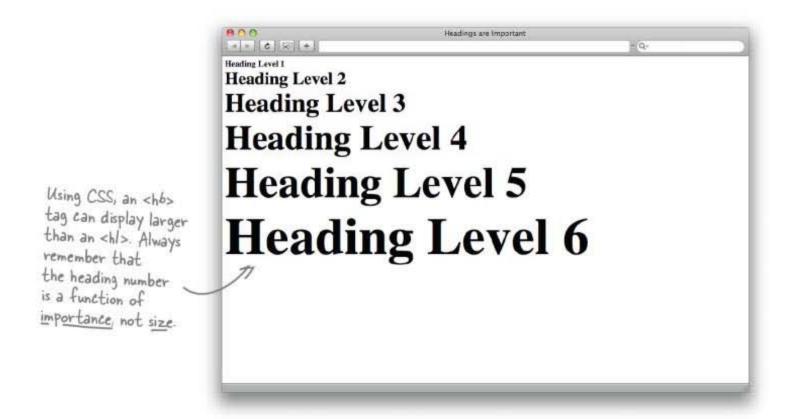
We could, but be careful. Do you mean text size or heading level?

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).





Just because you can style the lower-level headings in larger fonts with CSS, does that mean you should?



Tonight's talk: Serif and Sans-serif discuss readability and who makes the better web font.

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...

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.

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.

Sans-serif:

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.

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?

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.

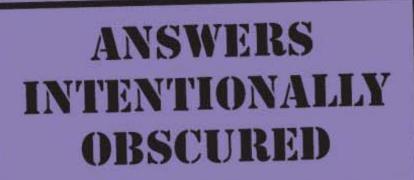
You're okay when you sit down face-to-face. You could do wonders for my pages if I use you in the right place...

	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
	Create CSS styles for the different heading levels to show what level each heading is. Be semantic.
	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.



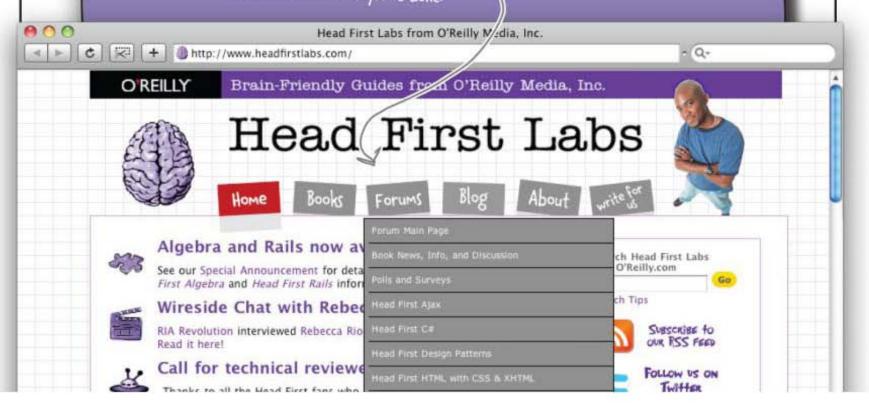
000

You changed up your XHTML and added CSS styles for your headings, body text, and maybe even lists, but how did you do? Why not tell us!



Build your best version of The Hipster Intelligencer page, then submit your URL in the Head First Labs "Head First Web Design" forum. We'll be giving away cool prizes for the best entries in the coming months.

Visit us here, tell us about your entry, and give us a URL so we can check out what you've done.



Your Web Design 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.

8 accessibility



Inaccessibility Kills *





Look, I just need two more days... I've got my ALT tags done. Will that hold you over? Please, I just need to order my <div>s, and you'll have everything you want...



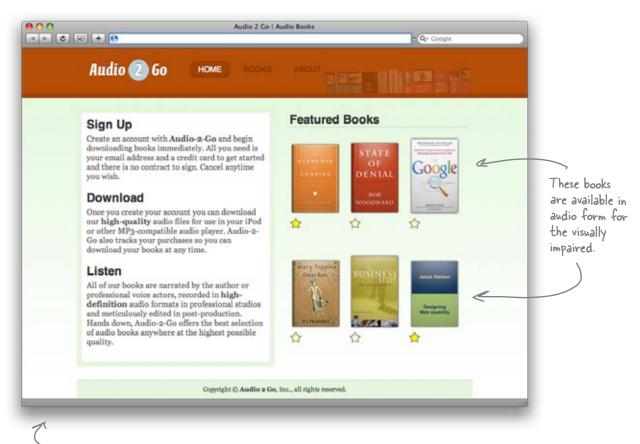
Who's missing out on experiencing your website, right now?

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-2-60: 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.



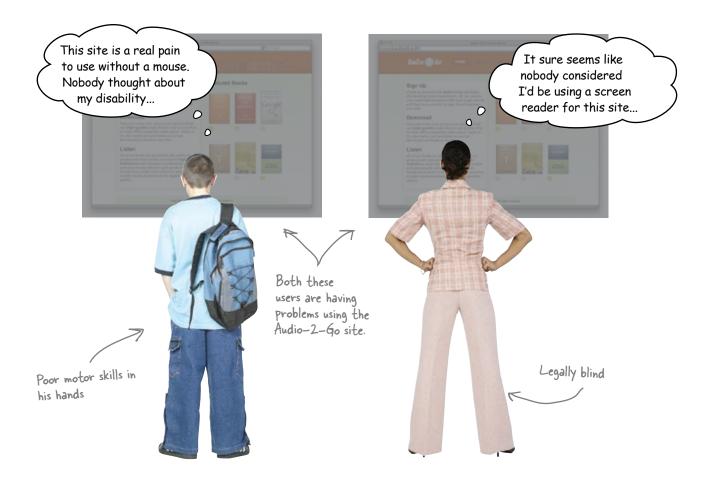
Do you see this site in full color, at high-resolution? Then you're probably not in Audio-2-Go's

Accessibility means making your site work for EVERYONE

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 DISABILITIES affect how people experience and enjoy YOUR website.



How does your site **READ?**

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/).



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?

0	
8	
•	
_	
•	
What are your thoughts about overall site?	the
overall site?	
Ž	

A site's message should be clear...to **EVERYONE**

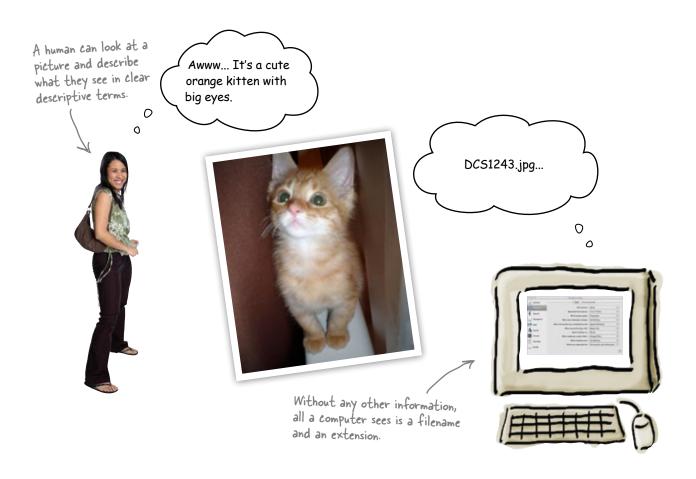
Audio-2-Go's message isn't so clear verbally, is it? The whole point of a website is to communicate something to your audience. That means your job is to make sure your content is just as clear to someone using a screen reader as it is to a sighted user. But when you "listen" to Audio-2-Go, a lot's lost 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.





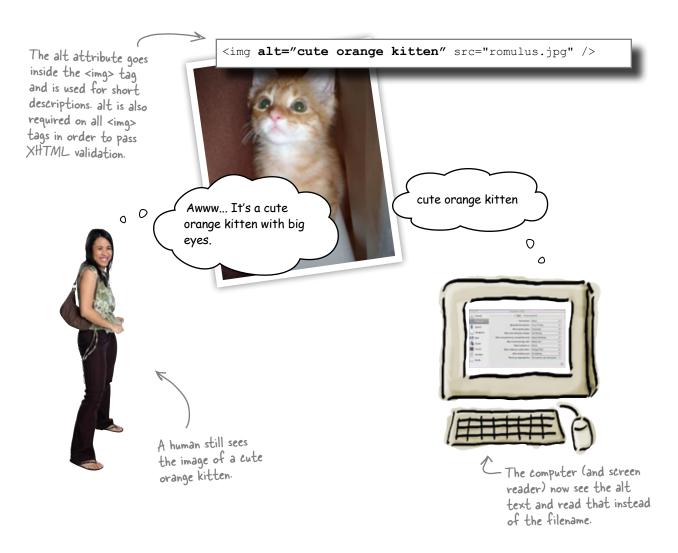
How can you tell the computer what your image really is, in a way you think a screen reader might understand?

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:





Create an tag based on the information for each image and the alt text that was provided by the owner.



Filename: audio2go-logo.jpg

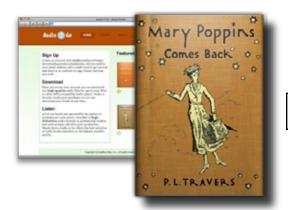
Pescription: Audio-2-Go header logo

Write in the full tag here



Filename: googlestory.jpg

Pescription: The Google Story: An inside look into one of the World's greatest technology startups.



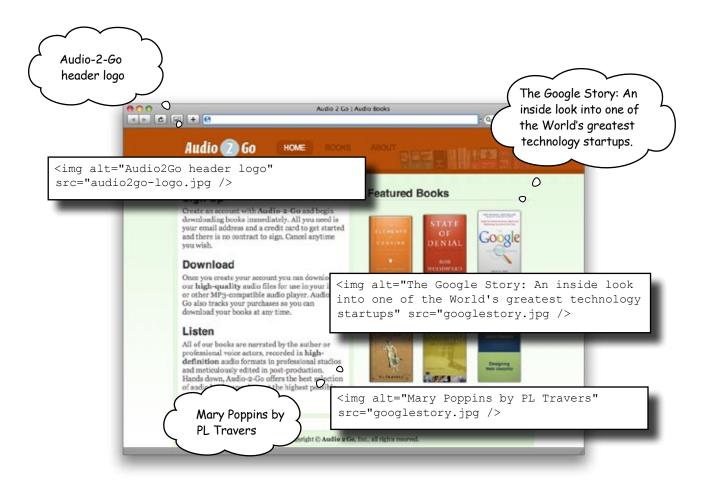
Filename: poppins.jpg

Pescription: Mary Poppins by P.L. Travers



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?

0

EVERYONE's time is valuable.

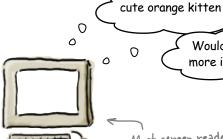
Nobody wants to see or hear a page that's filled with text that's not relevant. Lengthy alt values are going to bog down your page and give information that's not really needed. What we need is a way to provide additional information about an element, but let a viewer or listener choose whether they 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.

<img alt="cute orange kitten"
longdesc="romulus.html" src="romulus.jpg" />

longdesc 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.



Would you like more information?



Most screen readers let you choose to hear the longdesc page of information.

Convert your long ALT text to a LONGDESC

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:

Add a LONGPESC attribute to the Google book image tag.

Now the alt text is short and to the point.

longdesc is added and Points to a page with more information.

© Create an HTML file called googlestory.html and add a longer description.

THE NATIONAL RESTRELLER
Resided and lighting fluoriness, stocks and listchnology fluoriness of Our Time

Coogle
Story

David A. Vise
Lass the last for the list of the last of

content from the book's

back cover if you wanted to.

```
The file you reference in longdesc should be normal XHTML.

<! DOCTYPE 1
```

<!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 Google Story</title>
 <meta http-equiv="Content-Type"</pre>
Add your long description
between the paragraph tags.
You could even add more

content="text/html; charset=utf-8"/>
</head>
<body>

The Google Story: An inside look into one of the World's greatest technology startups.

</body>

Make sure you properly mark up your content. Remember, this is still and HTML file... Let's keep things valid!

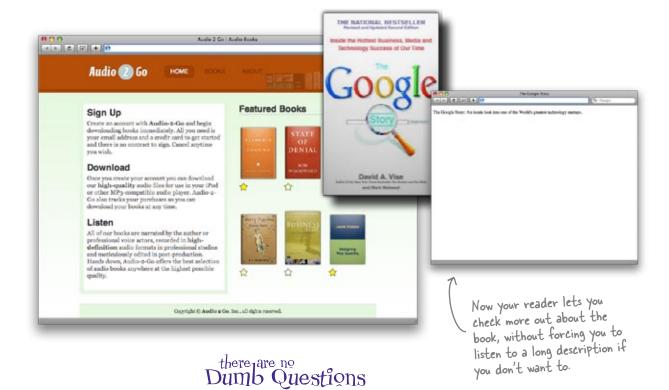
A longdesc page looks pretty bland... but these are meant to be read more than seen.





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.



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.

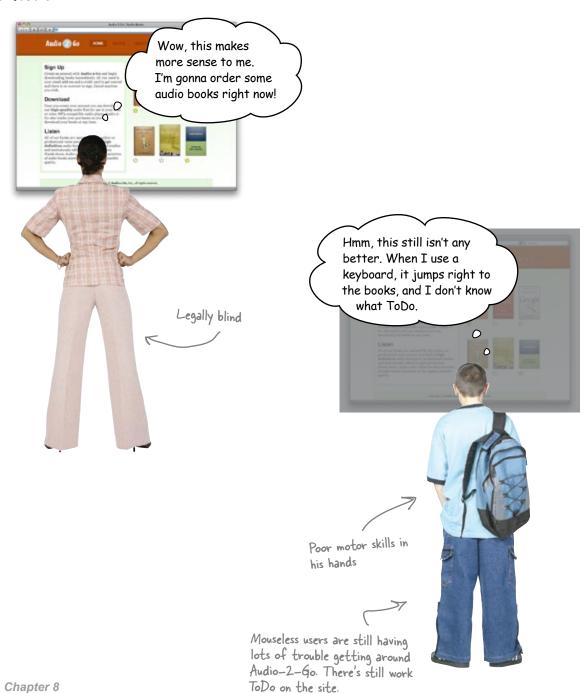
Will sighted users see the LONGDESC link?

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.

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.

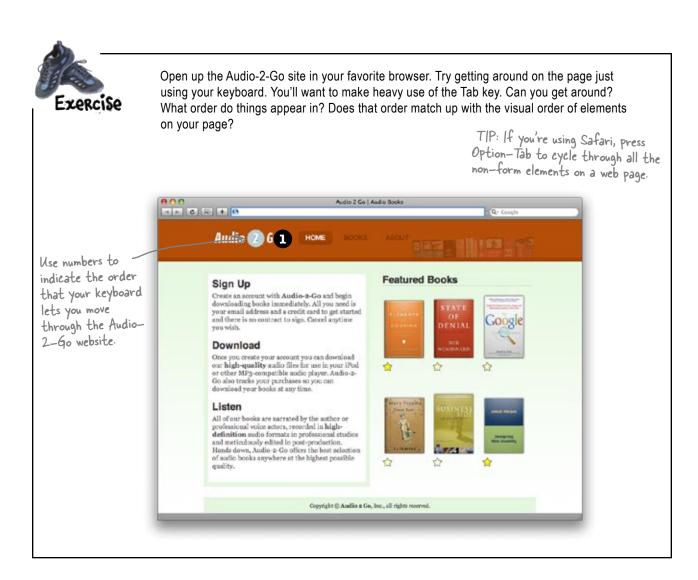
Your improvements are making a difference for SOME Audio-2-Go customers



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" ></a>
    <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" ></a>
                                                                    These books will come after any
    <imq 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.



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?

```
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"</li>
         href="books.html">Home</a>
  <a tabindex="3" title="about Audio2Go"</li>
         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">
      <imq alt="the elements of cooking" src="elements.jpg" /></a>
    <a tabindex="8" href="/books/2">
  <img alt="state of denial" src="sod.jpg" /></a>

We've left off
                                                                  - 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"></a>
                                                                   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>
</111>
                              These links are further down in the markup, but
</div>
                             this text should be tabbed to before 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.

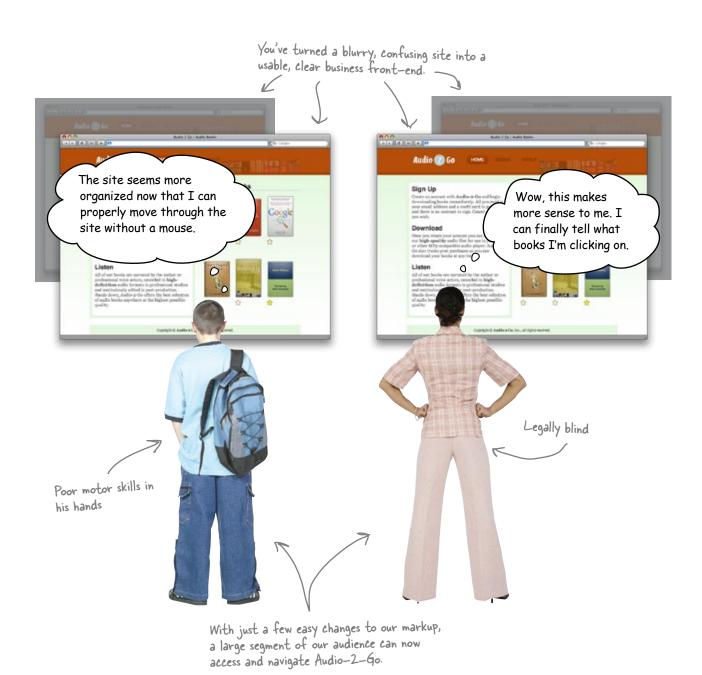
The tab sequence should start with the page header and navigation.

Remember, if you're using Safari, you need to Option—Tab to make use of the built in tab sequence.



Finally, the tab sequence should step through each of these books.

Audio-2-Go is now a LOT more ACCESSIBLE



there are no Dumb Questions

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.

So why not just put things in my XHTML in the order they'll appear on the online page?

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.

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?

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; voice-recognition 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.

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.

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.

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.

What other kinds of disabilities should be considered when designing an accessible website?

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).

How do you deal with all the cognitive and neurological disorders?

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.

This whole accessibility thing is creating a lot of extra work. Is it really worth it?

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!



0

The law requires 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.

Everyone benefits from accessibility

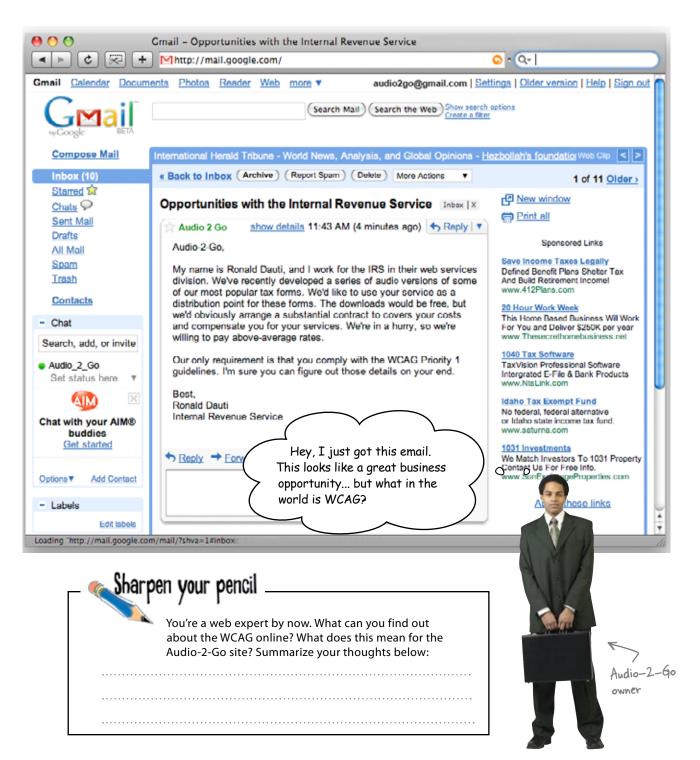
Many of the enhancements and techniques used to make websites accessible to people with disabilities benefit those users *without* disabilities. Accessible websites are often easier to navigate, more user-friendly, and download faster.

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 right thing ToPo

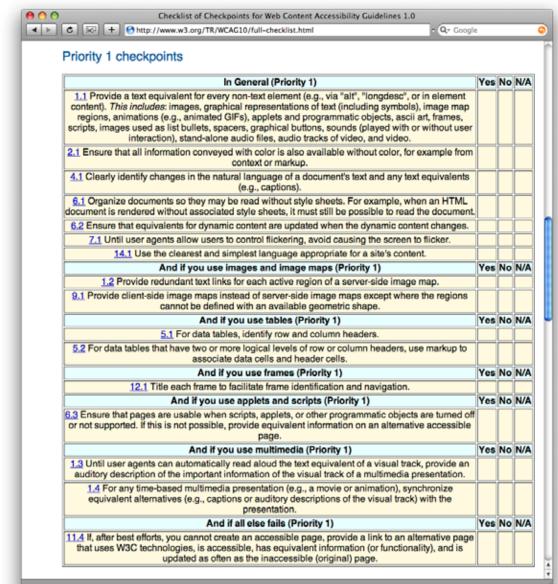
Accessible websites represent an important step toward independence for many of the disabled. They provide crucial access to fundamental governmental and educational services and information that would otherwise be unavailable to individuals with certain disabilities. Designing with accessibility in 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:



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.

Whoa... that list is huge! It's going to take forever to make the Audio-2-Go site WCAG Priority 1 compliant... and we've already done so much work, anyway.

0



The WCAG is <u>exhaustive</u>... but your changes 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**.

_ Sharpen your pencil	
	Take a look at the checklist on the previous page, or visit the WCAG checkpoints online at http://www.w3.org/TR/WCAG10/full-checklist.html. Below, write any changes you think need to be made to Audio-2-Go to fulfill the Priority 1 checkpoints.



Your job was to figure out what we still needed ToDo with Audio-2-Go to make it WCAG Priority 1 compliant.



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.



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?

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.

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?

there are no **Dumb Questions**

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.

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 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.



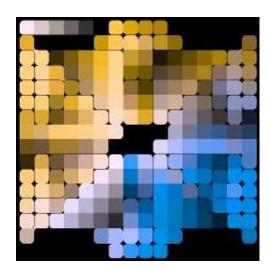
Life through web-safe eyes...

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 sean of a Visibone book (http://www.visibone.com/products/browserbook.html).

These two palettes look completely dissimilar... which one do your users see?



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?

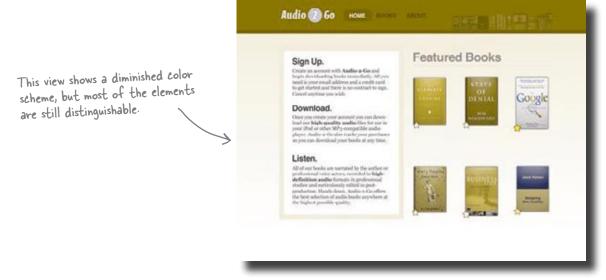
Audio-2-60, via color-blind eyes

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:



Here is the original color scheme viewed by someone with no color blindness.

Original



Peutanopia (no green cones)



This is a rarer type of color blindness that affects yellow tones. The stars are completely useless in this view... which definitely violates WCAG Priority I.

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/>/></a>
      <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">
      <imq 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 />
      <span class="rating high">Rating: 9</span>
    <a tabindex="12" href="/books/6">
      <img alt="designing web usability" src="dwu.jpg" /></a><br/>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,
  </111>
</div>
                                     medium and high respectively)
               there are no
             Dumb Questions
```

iguplus So we can't use visual indicators, like the stars, anymore?

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 your 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:

```
#featured-books li .rating {
    padding: 4px 0 4px 30px;
    font-family: Helvetica, sans-serif;
    font-size: small;
    text-transform: uppercase;
}

.high {
    background: url('../images/star_high.png') no-repeat left;
}

.medium {
    background: url('../images/star_medium.png') no-repeat left;
}

.low {
        appropriate colored star.
        background: url('../images/star_low.png') no-repeat left;
}
```



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.



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.

you are here ▶

307

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 else... which might look great styled with CSS, but won't satisfy WCAG requirements. ToDo

Provide a text equivalent for all non-text elements.

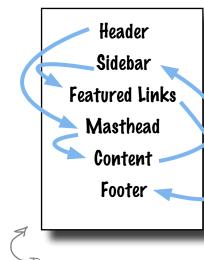
All color information must be displayed without color as well-

Organize documents so they can be read without stylesheets.

Here's the same sequence of elements, but ordered how you'd want someone to view or hear the content.

Header Masthead Content Sidebar Featured Links

Footer



The ordering of things here is... difficult to follow.



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.



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.
ul id="nav>
  <a tabindex="1" title="homepage" href="index.html">Home</a>
  <a tabindex="2" title="browse books"</pre>
         href="books.html">Home</a>
  <a tabindex="3" title="about Audio2Go"</li>
         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">
      <imq 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



Your job was to rearrange the chunks of the Audio-2-Go page so that it has a more logical flow when rendered without a style sheet. Here's what we did.

```
ul id="nav>
 <a tabindex="1" title="homepage" href="index.html">Home</a>
 <a tabindex="2" title="browse books"</pre>
        href="books.html">Home</a>
  <a tabindex="3" title="about Audio2Go"
        href="about.html">About</a>
<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>

    Flipping the "info" <div> and "featured-books"

<div id="featured-books">
                                       <div> makes the page display in the proper order
 <111>
   <1i><a tabindex="7" href="/books/1"> when a stylesheet is disabled or unavailable.
     <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>
  </div>
```



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.

> Hey, doesn't this mean we don't need all those tabindexes now?

WCAG Priority 1 makes tabindex unnecessary.

With your markup ordered correctly, go ahead and remove all the tabindex attributes from your index.html. Not only are they unnecessary, they'll let you ensure that you've ordered things correctly by using the Tab key.



Using the Tab key is a great way to verify your site stays in order, even when you add new sections.





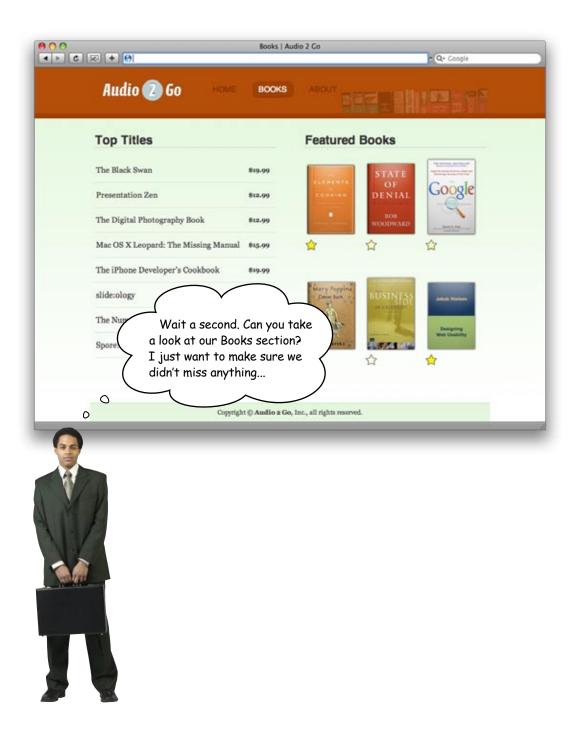
We've got another item we can cross of our list. We're done, right?

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 stylesheets.



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.

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.

Hint: the Top Titles list 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.

```
ToDo
                                                 Provide a text equivalent for all
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict/</pre>
                                                 non-text elements.
         "http://www.w3.org/TR/xhtml1/DTD/xhtml1-st
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang=</pre>
                                                 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"</pre>
 <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</pre>
       <a class="active" title="Audio books"</li>
              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>
     <l
       <a href="books/1"><img alt="the elements of cooking"</pre>
             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 © <strong>Audio 2 Go</strong>, Inc., all rights reserved.
   </div>
 </div>
</body>
</html>
```

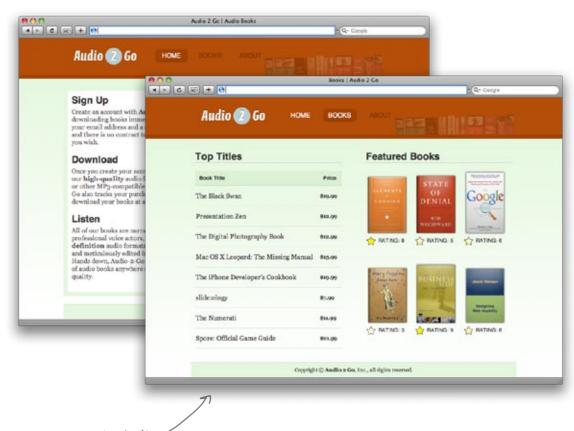


Test Audio-2-Go's accessibility

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:

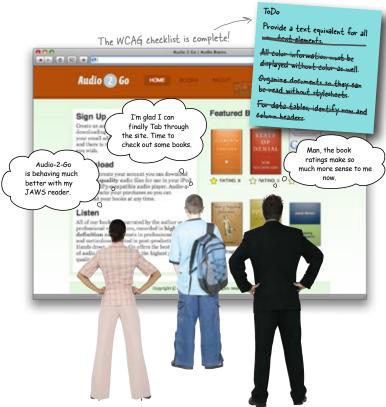
Get a copy of the assistive technologies in question (like a screen reader), and take the site for a test drive yourself. Or, even better, you can use software, such as Cynthia Says, that automatically checks a site for WCAG compliance: http://www.contentquality.com/

Update both the home page and the Books page, and see how Audio-2-Go looks.



Give Audio-2-Go a test with the Cynthia Says validator.







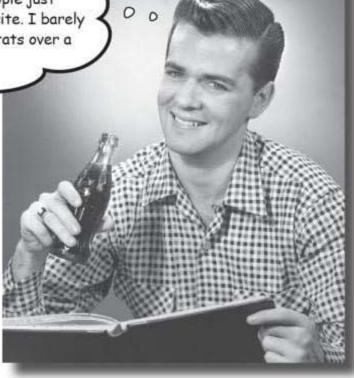
BULLET POINTS

- 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.

* The Pathway to Harmonious Design *

Ever since I started really listening to my users, people just can't stay away from my site. I barely have time to look at the stats over a cola these days!



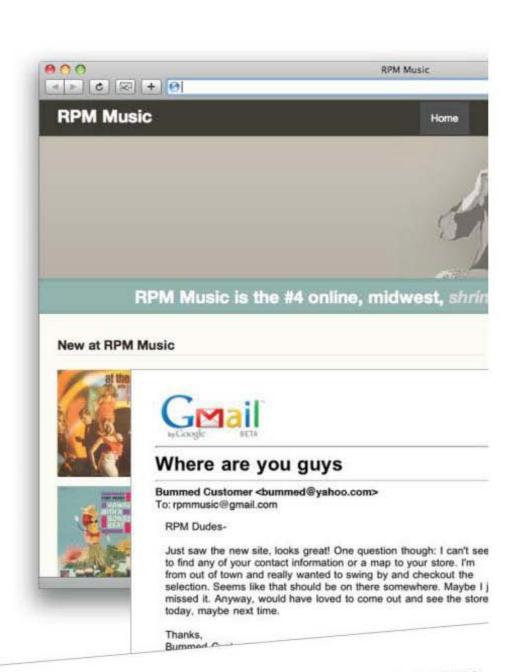
Good design is all about really listening to your users.

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.

Problems over at RPM

I keep on getting angry emails from my customers. They're all complaining about the same problems with the site. You built the site for me-now I'm going to have to ask you to fix it so it works... properly this time!







RPM Music <rp>mmusic@gmail.com>

Problems with the new site

Sat, Aug 23, 2008 at 4:06 PM

C. Customer <custc@hotmail.com> To: rpmmusic@gmail.com

All of a sudden your site changed! It looks all crazy now. The sections of the pages don't look like the are in the right place, and things don't make sense. Can you fix this? I want to keep buying stuff from you guys, but with a website looking like this, it's a little difficult.

Concerned Customer



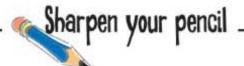
Let your audience speak to you through focus groups and surveys

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



Read through each of the scenarios below and decide which method (**survey** or **focus group**) would be best for getting the information you need to make your design decisions.

Write your answer on the dotted line.

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.

...........



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

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Scenario 3

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Surveys are perfect for getting lots of information from a large group of people.

Survey

This is a tough one. The kind of information you need is probably more suited to a survey, but the literacy issue might require a focus group if users are put off by filling out forms.

Focus Group OR Survey

This is perfect for a small focus group. Open-ended feedback and group discussion is exactly what you need.

Focus Group

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

Time is money, as they say.

- \$ 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)
- \$ Equipment rental (projector, screens, recording devices, etc...)
- Food and/or compensation for participants
- 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

the focus group—they re highly skilled at what	\$
they do and generally	\$
don't come cheap.	\$
\rightarrow	\$

A moderator will run

Shar	pen	your	pencil
	0.000	1	

	(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.
•••••	

Now that you've got a good idea of the pros and cons of surveys and focus groups

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

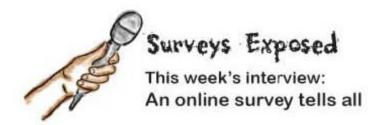
We need to get information from as many of the RPM Music customers as cheaply as possible (remember, we need to make the owner happy). Also, using a survey will allow us to collect information on browsers and operating systems — which might just provide a solution to our problem.

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.

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.



Give your users an A, B, C, and D and make the options clear and concise.

- A good survey question has specific answer choices.
- A good survey question does not lead the participants to any particular answer.
- A good survey question is short.
- A good survey question is easy to read and understand.

 You with accurate information. Pay close attention to how you word questions and make

If you confuse your users, they aren't going to provide sure they're not confusing.

A good survey question asks for knowledge or an opinion, but never both at once.

Dumb Questions

Q: What if I want to ask an open-ended question?

A: Just don't provide answer choices, and phrase the question so it's clear that you want the participant to answer in their own words. Open-ended questions are great for getting qualitative data. Qualitative data is data that isn't numerical in nature. So, if you were to ask survey participants what operating system they use, your results would be numerical (58% Windows XP, 5% Windows Vista, 30% Mac OS, 7% Linux). But if you asked survey participants to describe the technical problem they are having with a website, each of the responses will be different, and the results will not be numerically based. Be prepared for more work when you put your results together if you ask an open-ended question. Each response will be different, and you won't get the same statistical (numerical) results that you'd get with other kinds of questions.

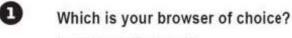


Now that you've seen what makes for a good (and not so good) survey question, it's time to put your skills to the test. Below you'll find some survey questions that could use a little work. Have a look at them and write down the problems with each question.

0	Which is your browser of choice?	
	A. Internet Explorer 6	
	B. Internet Explorer 7	
	C. Internet Explorer 8	
8	Does your current CMS publish W3C-compliant markup?	
	A. Yes	
	B. No	
	C. I don't publish with a CMS	••••••
8	There are many people who believe that designing with web standards is a waste of	
	time—are you one of these people?	
	A. Yes	
	B. No	***************************************
4	Do you believe that the current single column	
	layout website in question is bad and should be changed to a 2 column layout?	
	A. Yes	***************************************
	B. No	
	ALTERNATION OF A LAND AND A LAND A LAND AND A LAND AND A LAND AND A LAND AND A LAND A LAND AND A LAND A LAND AND A LAND AND A LAND A L	



Let's take a look at the survey questions and see what we can do to make them better.



A. Internet Explorer 6

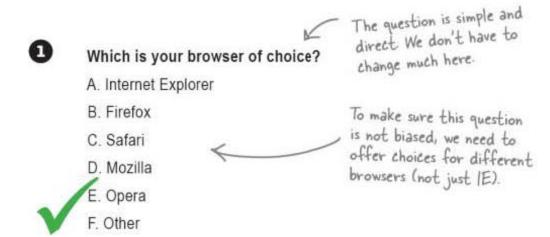


C. Internet Explorer 8

The question isn't bad, but the possible answers are misleading.

The problem with this question is that it's biased. Biased questions encourage your participants to respond to the question in a certain way. They may contain terms, or may be worded in a way that leads the participant to a specific answer. Here, all of the associated options are Internet Explorer (though different versions). What if the respondent uses a different browser? Well, their only option would to choose "Other," if it were available as option D. That would ultimately skew the results (because you won't get any differentiation between browsers besides Internet Explorer). This question may also mislead participants into choosing Internet Explorer just because they have it in their system (as opposed to being their primary browser).

A better browser question might be...





Does your current CMS publish W3C-compliant markup?

A. Yes



B. No

C. I don't publish with a CMS

Although this question if focused and simple, it falls into a common trap. The terms "CMS" and "W3C-compliant" are only used by a small group of people within web technology circles. Even though some users may recognize the terms, most won't and you risk confusing and frustrating your survey participants. Avoid using jargon in your questions and always try to write to the broadest audience possible.

Less jargon = better understanding = accurate responses

Does your website code validate as standard XHTML or HTML?



A. Yes B. No

C. I don't know



Even without the jargon, it's good to give users an "I don't know" choice just in case.

Dumb Questions

O: How do I know if I'm using jargon? And how can I get rid of it in my questions?

A: Jargon is pretty subjective. What is jargon to one person isn't necessarily jargon to another. There are two things you can do to make sure your questions are clearly written. First, re-read your questions and think about your audience—try to phrase things as simply as possible. Second, give your questions to someone who isn't familiar with the subject matter. They'll tell you if they don't immediately understand something you've written.

→ More questions over the page...



Let's take a look at the survey questions and see what we can do to make them better.

There are many people who believe that designing with web standards is a waste of time—are you one of these people?



A. Yes

B. No

Read the question again. It's a strong opinion that you're being asked to agree or disagree with, and that could lead your respondents' answers.

This question's problem is that it assumes what it asks. This is a type of biased question that leads your participants to agree or respond in a certain way.

Let's not assume...

Do you agree of disagree that designing with web standards is a waste of time?



B. Disagree

A. Agree

C. Undecided

Don't lead the question with an opinion. This will always skew the results and make the survey less credible. 4

Do you believe that the current single column layout website in question is bad and should be changed to a 2 column layout?



B. No

A. Yes

The problem with this question is that it's two questions. Participants won't know which to answer. What if they agree with one but not both, or disagree with part or all of the question... How do they answer then? This can make them feel frustrated and could lead them to quit the survey without finishing it.

Just ask one question

Do you like or dislike the current one column layout in the website in question?

A. Like



C. Undecided

If you offer yes and no options,
- always give an "undecided" option
to cover respondents without a
strong opinion either way.

Do you believe that the layout of the website in question should be changed to a 2 column layout?

A. Yes

0

B. No

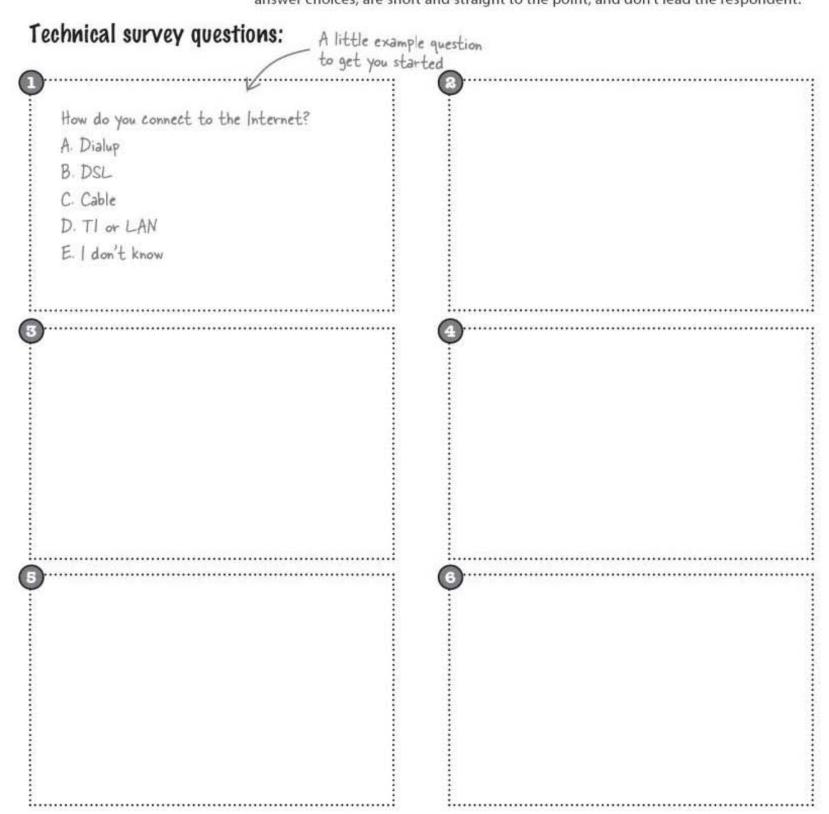
C. Undecided

Instead of asking two things in one question, ask two questions.

These questions will be easier to understand and will result in more accurate data.



It's time to start building your user survey to help RPM Music. Write five technical questions to start with (what kind of browser users prefer, what kind of computer they have, etc.), then ask five demographic/usage questions (gender, age, how many hours/week do they use the web, etc.). Make sure you write questions that have answer choices, are short and straight to the point, and don't lead the respondent.



mographic/usage questions:	
mograpinos osage questions.	
	(3)······
How many hours/week do you spend on the	
internet?	
A. 0 - 5 hours	
B. 6 - 10 hours	
C. 11 - 15 hours	
D. 16 - 20 hours	
E. 20 + hours	
	<u> </u>
	<u></u>
,	
3	
	· <u>.</u>
	: (6)
118	
3	
	:



Let's take a look at some possible technical and demographic/usage questions you could ask RPM's users.

Possible technical questions:

What is your primary browser?

- A. Internet Explorer
- B. Firefox
- C. Safari
- D. Opera
- E. Other

This is an important question because some browsers have peculiarities in how they render CSS.

What is your computer's operating system?

- A. Windows XP
- B. Windows Vista
- C. Mac OS X
- D. Linux
- E. Other

Even if the users don't know what browser they use to surf the Net, we may be able to work out which browser they're likely to be using since all operating systems come with one installed by default.

What is the resolution of your computer monitor?

- A. 800x600
- B. 1024×768
- C. 1280×1024 (or above)
- D. I don't know

As you discovered back in Chapter 4, screen resolution can have a big impact on how your users view your site, so it's important information to have.

Possible demographic/usage questions:

What is your gender?

A. Male

B. Female

Gender's one of those questions that all surveys ask, regardless of their subject matter.

Depending on the site's content, gender can play a large or small part in your design decisions.

Do you buy music online (downloadable or shrink-wrapped)?

A. Yes

B. No

C. Don't know

Do your users even buy music online? This may seem like an obvious question, but if you don't know, ask!

This is a question that is great for the RPM Music site, but wouldn't work with other kinds of sites.

How many hours per week do you spend online?

A. 0 - 5

B. 6 - 10

C. 11 - 15

D. 16 - 20

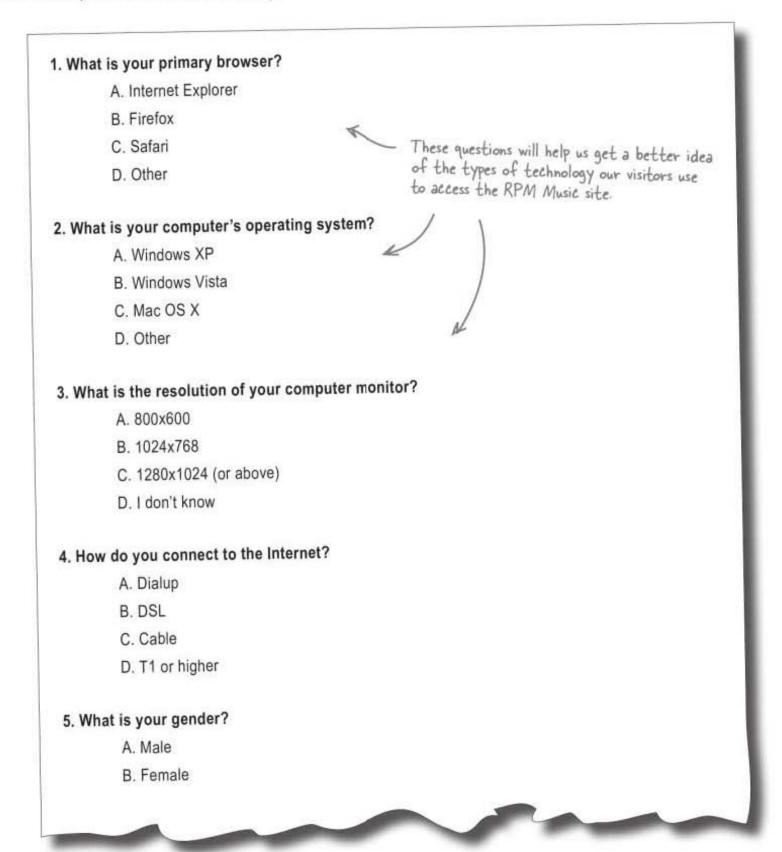
E. 21 - 25

F. 26 +

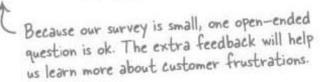
The amount of time a user spends on the web speaks to their experience online—which impacts how they use your site.

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).



- 6. What is your age?
 - A. 18-24
 - B. 25 34
 - C. 35 44
 - D. 45 54
 - E. 55 64
 - F. 65 +
- 7. How many hours per week do you spend online?
 - A. 0 5
 - B. 6 10
 - C. 11 15
 - D. 16 20
 - E. 21 25
 - F. 26 +
- 8. Do you purchase music online (downloadable or shrink-wrapped)?
 - A. Yes
 - B. No
- 9. Please provide any other feedback about the new RPM Music site:



Dumb Questions

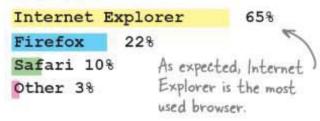
Is there a limit to the number of open-ended questions I can include?

A: Not really. Open-ended questions are a great way to get specific answers and feedback from your users. However, because there are no answer choices, they take more time to analyze and interpret and can sometimes be vague or not answered at all. Also, keep in mind that these types of questions take longer to answer and require more commitment from your users.

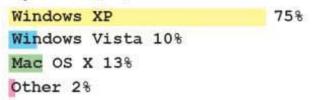
The results are in!

Let's take a look and see how our users responded to the RPM Music online survey.

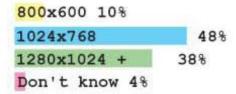
Browsers



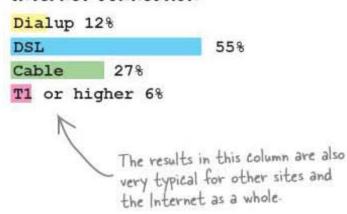
Operating Systems



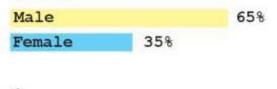
Screen Resolution



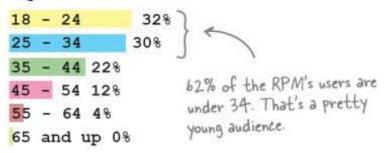
Internet Connection



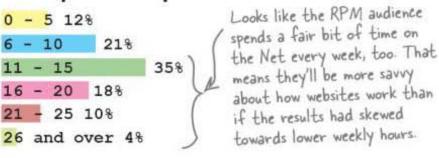
Gender



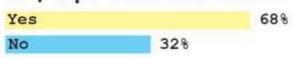
Age



Hours per week spent online



Do 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.

0

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.

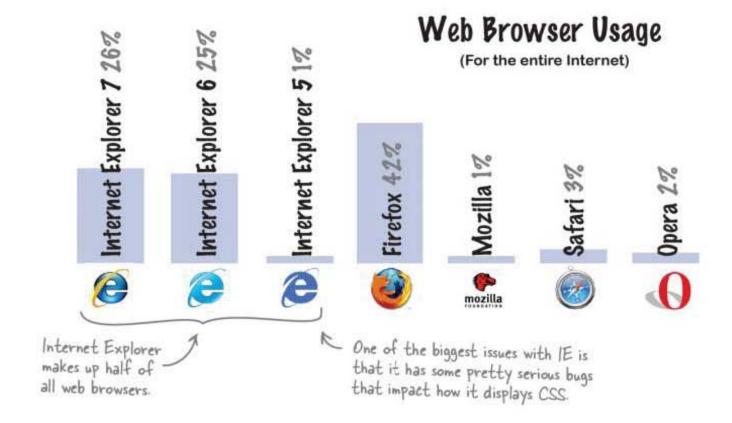
Frank: Ok, bugs—that won't display standards based XHTML and CSS the same way.

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

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.

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





Fix the RPM site by moving the "active" class from the tag to the <a> tag in the XHTML markup. Make sure you also update the CSS file to reflect your changes.

- Open up the index.html file and move the "active" class in the navigation to the link tag.
- <a title="RPM Music home"
 href="#">Home
 Music
 Blog
 Etc

Cart

Open rpm.css and change the location of the :hover pseudoproperty to the correct element.

```
#nav ul li.active, #nav ul li:hover {
    background: #333;
```

Launch the site in a browser and make sure everything looks as it should. If you're running Internet Explorer 6, you should see that the hover now appears properly.

One of the biggest issues with IE is that it has some pretty well-known bugs that impact how it displays CSS





Let's take a look at the quick fix for the RPM :hover problem.

The XHTML

Place the active class in the link tag. Not only is this semantically correct, but it won't mess with IEb.

Don't forget to change the XHTML for the other pages as well.

class="active">Home
Music
Blog
Etc
Cart

Nice work! I think this is going to put an end to the frustrated emails from users.

The CSS

#nav ul li.active, #nav ul li:hover

Both the active and hover states share the same background color, so they can appear in the same rule.

Replace the element with the <a> element to correspond with the changes we made in the XHTML.



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...



Your job is to play the user and perform a task that would typically appear on a standard usability test. Follow the instructions below and write your impressions of the

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?

 ********************	 	 •••••

Don't forget to write down the prices of the flights.

Behind the Scenes

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. BE the user solution

Your job is to play the user and perform a task that would typically appear on a standard usability test. Follow the

instructions below and write your impressions of the process in the space below.

> You might get different results, but these should be close.

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?

Selecting dates and times for the flight was pretty straightforward. The "Morn" and "Eve" options should be at the top of the dropdown list. If you don't know the exact airport, Expedia asks you to choose one. That particular screen is crowded and the "submit" button is hard to find.

Switching from Economy to Business class was easy, but that option should also be on the home page.

We had both negative and positive experiences with the site. Picking the flights was straightforward, but option switching became a problem.

Sometimes the interface works 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

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?
- · 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.

		tasks for the RPM Music Write your tasks below.	site that a typical user
)	 		
)	 		
)	 		

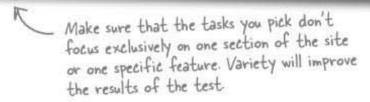
Sharpen	your	pencil
Sharpen	' Sol	ution

Let's take a look at some possible tasks (that a typical music site user might do), which you can use for your RPM Music usability test.

0	Locate the contact information and directions to RPM Music

3	Find the name of this month's featured artist

3	Search for Chicago's Greatest Hits and place an order with
	RPM Music (test payment information will be provided)



These questions cover the participant's experience during the test and their opinions about the site in question.

Post-study Questions

Post-study questions are designed to get the participants overall impressions of the site (or sites) being tested. Questions could include the following:

To what extent did the content of the website meet your expectations?

Not at all A Little Neutral Somewhat met Very much so

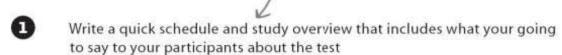
 Overall, how easy was it to understand the organization of the website's screens, especially the menu levels and the flow of the screens?

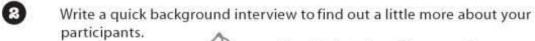
Very difficult Difficult Neutral Easy Very Easy

MODERATOR SCRIPT CONSTRUCTION

Now that you've got all the parts of your moderator script, put it all together in a document. Fill in any missing pieces, and you should be good to go.

This may seem unimportant, but when we say moderator script, we mean everything.





Age, technical proficiency, etc. These will be your demographies that will allow you to look for trends in your users.

- Come up with some tasks that you think might help you solve some of the site's problems.
- Finish up the script with some post-study questions that tie the user test together and get some final thoughts from the participant.
- Gather and have ready any consent forms you may need for the test.

This is only necessary if you're doing this for a large company or university. In our case, we're just using friends—so we don't have to worry about this.

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

1 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

Task Instructions

- · Locate the contact information and directions to RPM Music
- Find the name of this month's featured artist
- Search for Chicago's Greatest Hits and place an order with RPM Music (test payment information will be provided)

Two to three tasks is enough-your friends probably have places to be.

Post-study Questions

To what extent did the content of the website meet your expectations?

Not at all A Little Neutral Somewhat met Very much so

Overall, how easy was it to understand the organization of the website's screens, especially the menu levels and the flow of the screens?

Very difficult

Difficult

Neutral

Easy

Very Easy



Great, I've got a moderator script. But what exactly do I do with it? Don't I need someone to actually interview?



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?



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.



Dumb 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.

Q: 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.

Q: 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.

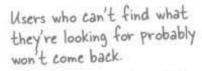
The results of the usability test-what the

00

users are telling you

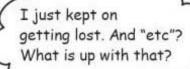
I'm confused.
Why don't you have a contact section? You have a whole page about the company but never tell me where you are.

Overall, I thought the site
was ok... I had a hard time finding
the contact information-it took
me forever! Who puts contact
information under an .etc link?

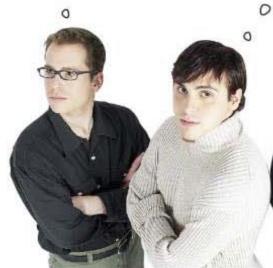




0



The new design rocks. I still wish you could purchase music digitally though. Shrink-wrap was so 1999.

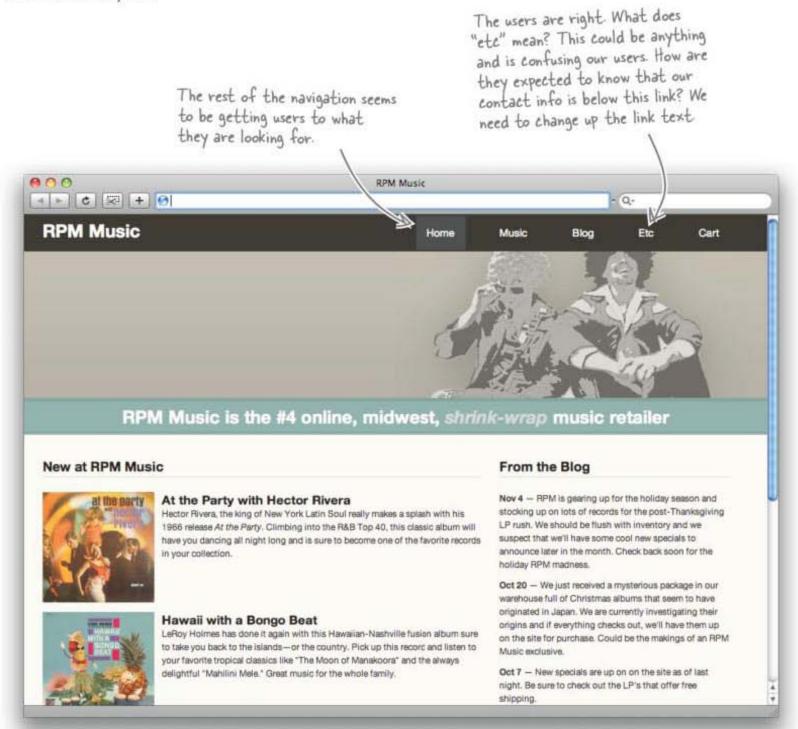




Some positive feedback on the design. Gotta love that.

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...

Home Music Blog About Cart Much better. Just tell them what they can expect when they click the link. RPM Music 4 F C 2 + 0 **RPM Music** Home About 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 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 beco Check back soon for th n 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.



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

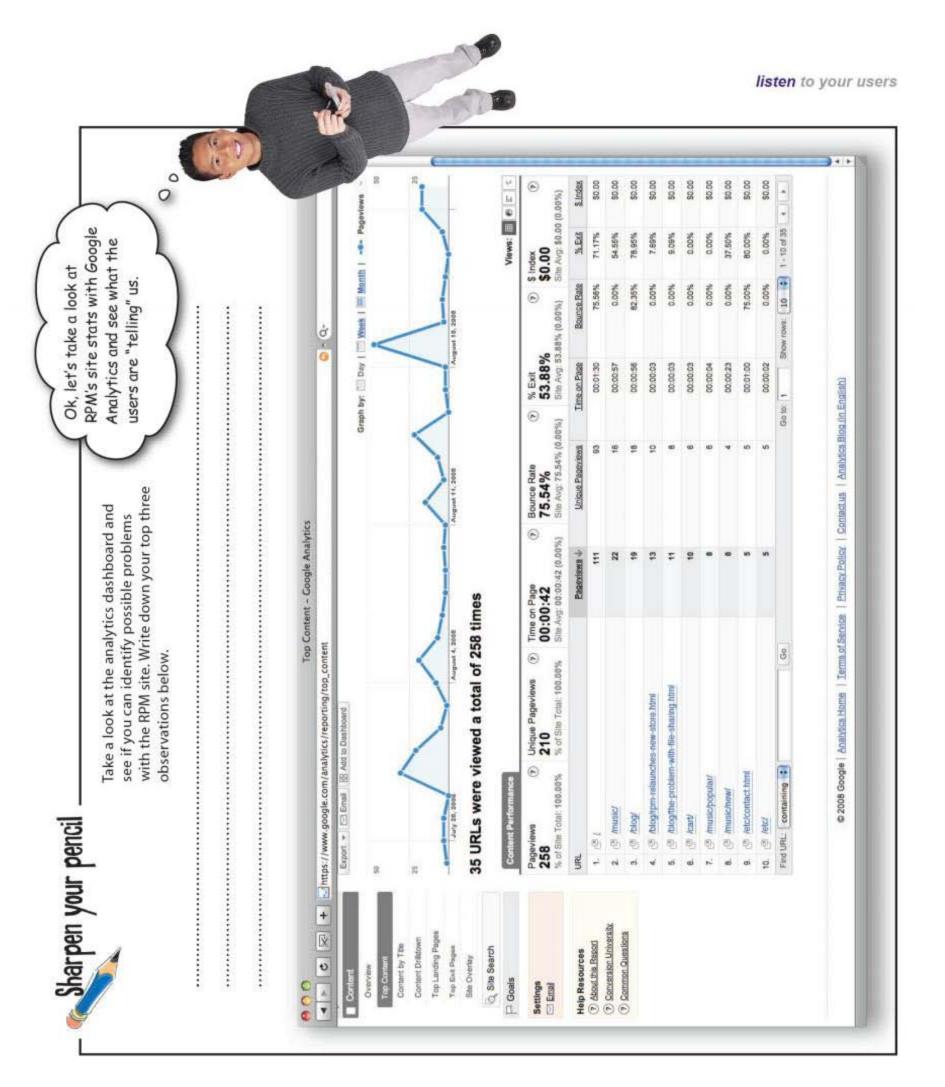
Google Analytics (http://analytics.google.com) is a free service offered by Google that generates detailed statistics about the visitors to a website. Although Google Analytics can provide detailed information about page views, referrers, browser versions, etc., it's geared more towards marketers than designers or developers.

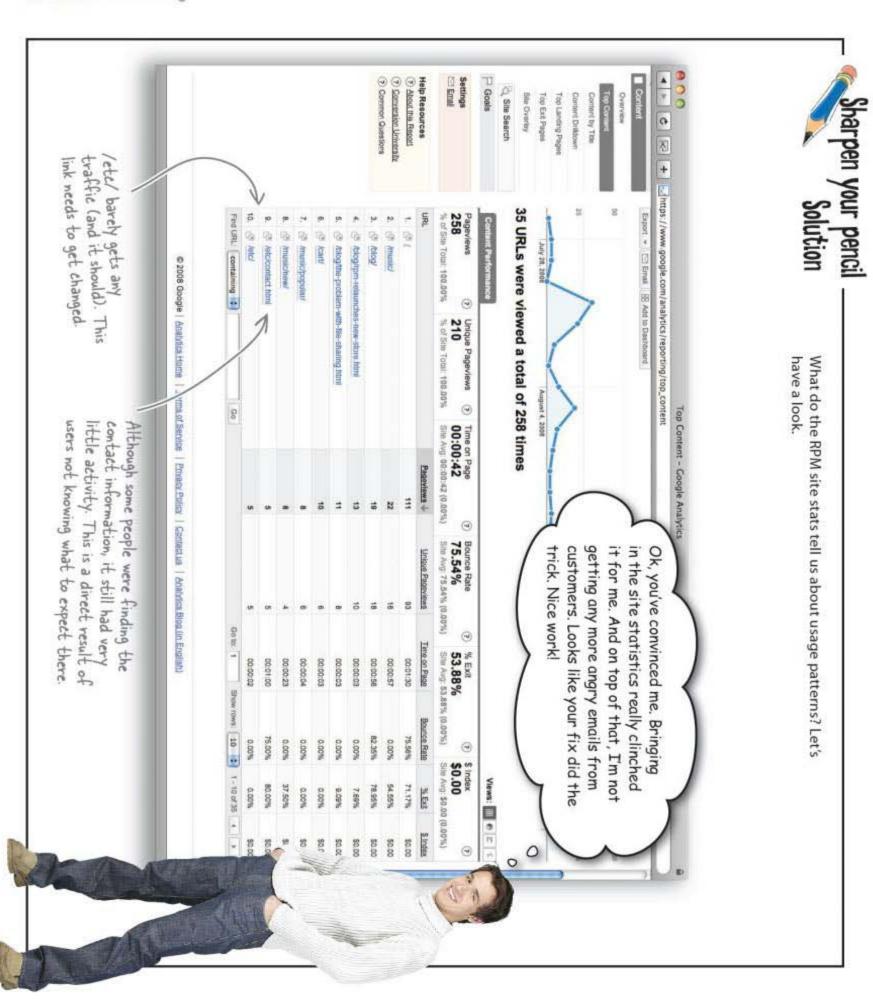
Google Analytics works based on a system called "page tagging," in which a little bit of Javascript is inserted into every page on the site. Every time that page loads,

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 Analytics is free and has great data visualization, like line and bar graphs







Your Web Design 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.

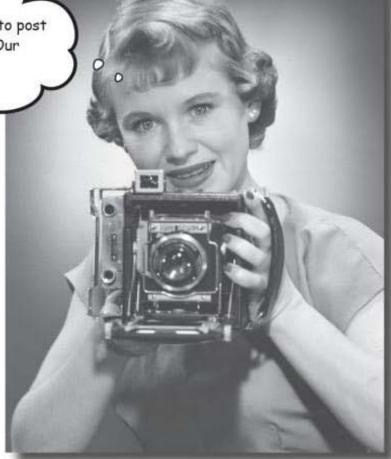
BULLET POINTS

- 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.

Keeping your site fresh

I'm so excited to be able to post pictures to my new blog! Our visitors will be thrilled...

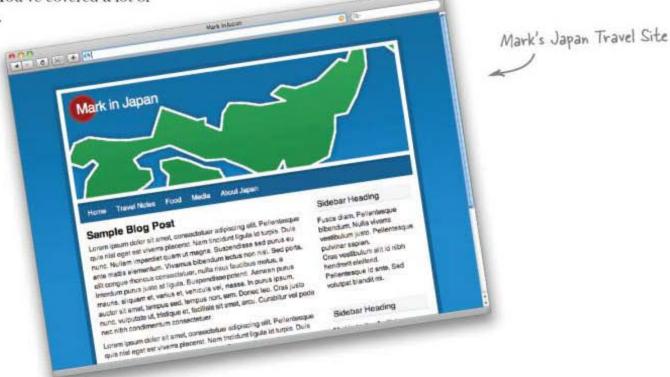


So, you've built a bunch of awesome websites.

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

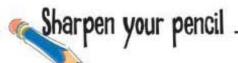
Red Lantern's doing great. Working with Jane, you've got some truly impressive projects under your belt, and you've helped establish Red Lantern's reputation for being an innovative and cutting edge design studio. But to keep that reputation intact, you need to make sure the Red Lantern site's up-to-date, 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.

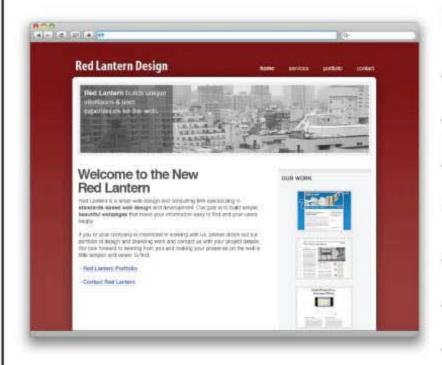
Keeping Red Lantern current should be no trouble with your web design skills, and I've brought in a junior graphic designer to help out.





The new graphic designer at Red Lantern's been hard at work on a couple of update ideas for the site. What do you think of them?

We've left space for you to make notes on the pros and cons of each below.



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í	Pros	

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l	*************	
	Cons	
l	*************	



What did you think of the graphic designer's ideas for the Red Lantern site? Are there elements of one (or both) you could use in a redesign?



Pros Retains the site's original theme.

The logotype's updated.

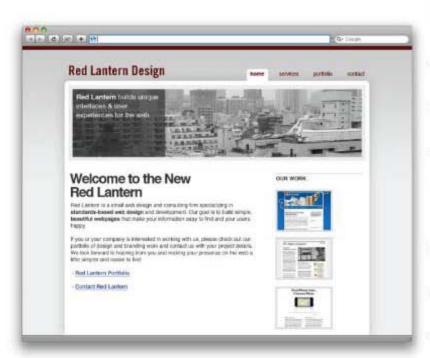
Cleaner all-around layout, but the changes

are subtle. It's not too obviously a redesign.

Cons Does it look too similar?

The portfolio lists the same sites as before.

The header's the same.



Cleaner all—around layout

Updated logotype:

Cons There's too little contrast between
the background and main content.

Similar header image.

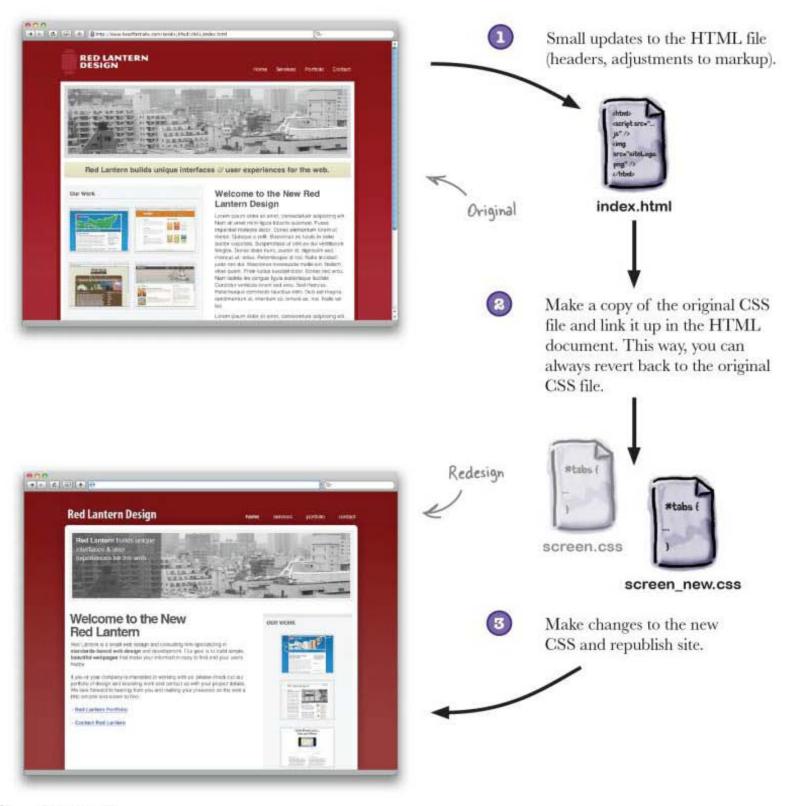
Design looks bland.

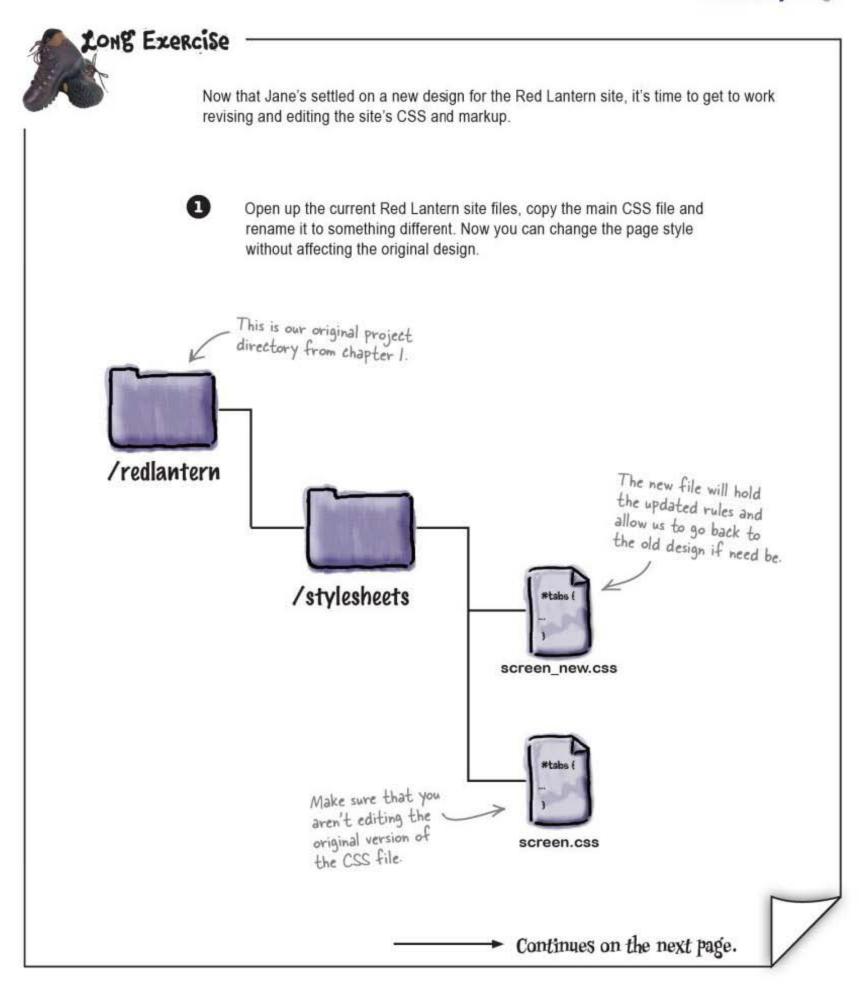
Tabs highlight the navigation.



Use CSS to <u>evolve</u> 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).

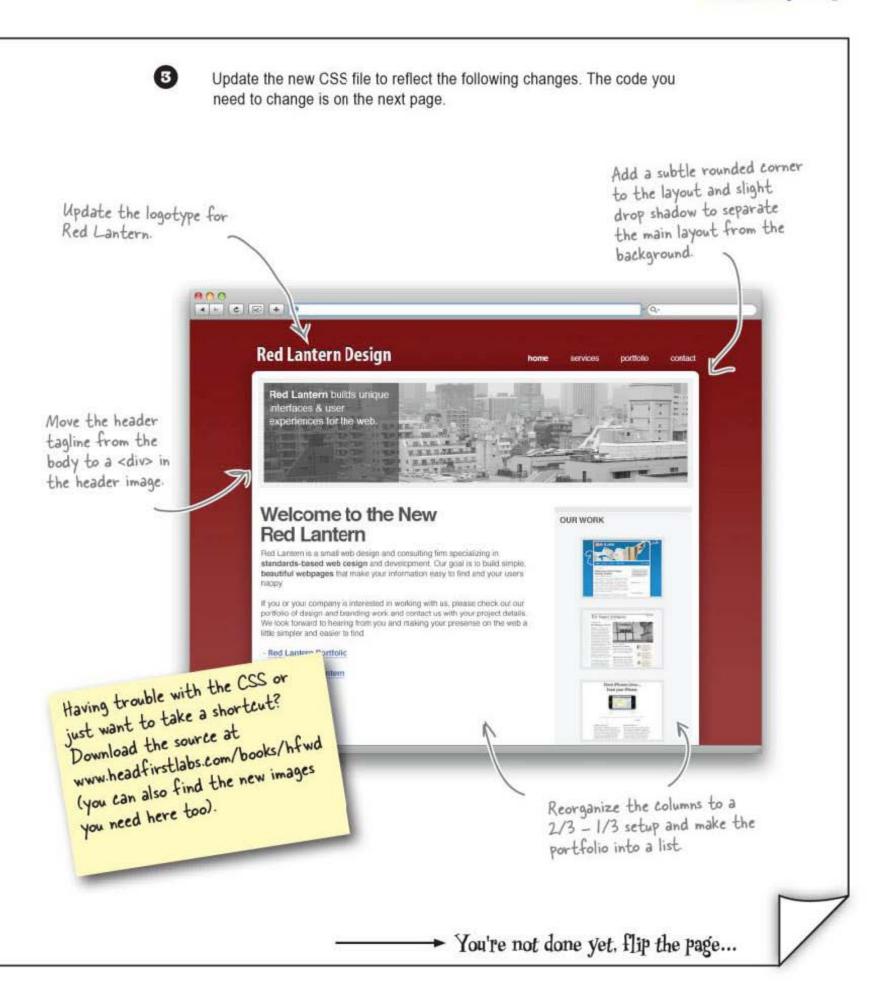






The only changes you need to make to the markup are linking the new (copied) stylesheet and removing the header image from the HTML (we'll use CSS to add it back later).

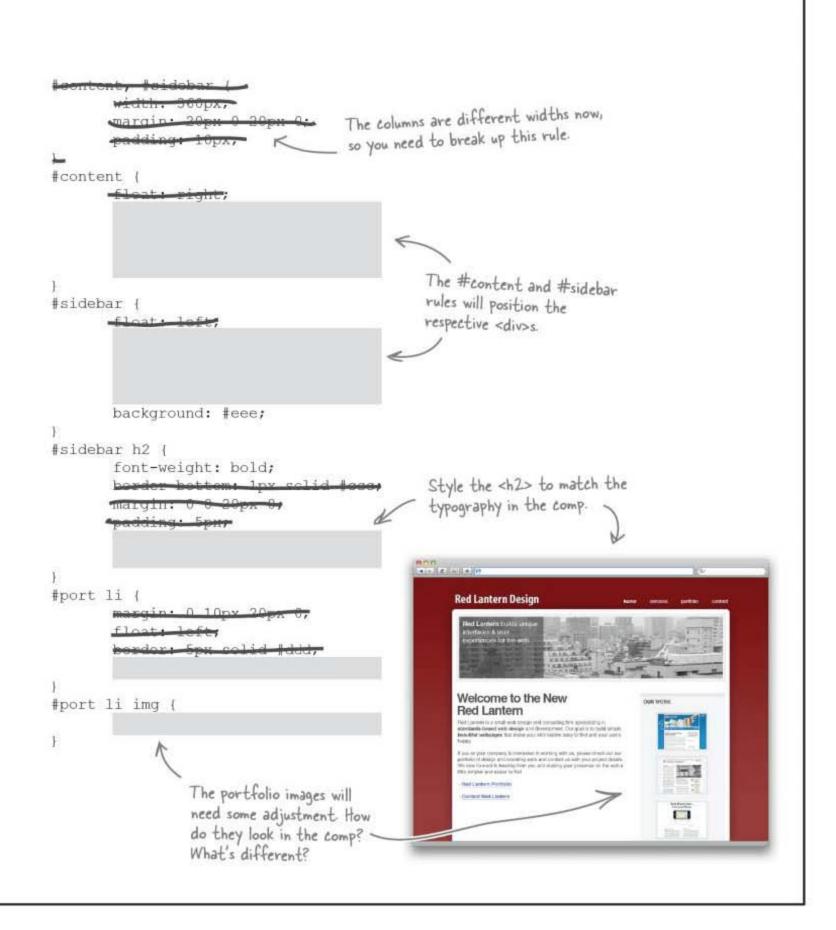
```
Add the new stylesheet to the
                                                              XHTML document Because it's an
                                                              exact copy of the original, it will
                                                              look the same but will act as the
                                                              framework for the new changes.
<!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">
      <title>Red Lantern Design</title>
       <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
      Vink rol-"stylecheet" href-"/css/sereen.css"
       <link rel="stylesheet" href="/css/screen new.css" type="text/css"</pre>
media="screen" />
                                                                 Our text wrapped, but this
</head>
                              Update the logo.
                                                                 is all one line in the file.
<body>
       <div id="masthead">
              <h1><immg alt="Red bar
              <h1><img alt="Red Lantern logo" src="images/rl logo updated.png"
/></h1>
             <a class="active" title="Red Lantern home" href="index.</li>
html">Home</a>
                    <a title="Design services" href="services.html">Services</a></
1i>
                    <a title="Our work" href="portfolio.html">Portfolio</a>
                     <a title="Contact Red Lantern" href="contact.html">Contact</a></
1i>
              </div>
       <div id="wrap">
             <div id="header">
                     <img alt "tokyo buildings" src="images/tokyo.jpg" />
                    <h1><strong>Red Lantern</strong> builds unique interfaces
<span class="amp">&amp;</span> user experiences for the web.</h1>
             </div>
                            Remove the <img> tag (the header's
                            background image will move to the CSS file).
                            Change up the #header <hl> tag also.
```





Add new rules to screen_new.css so the Red Lantern site matches the comps from the graphic designer. (We crossed out the old rules; you just need to add the new ones.)

```
#masthead (
        margin: 0 auto;
        margin-top: 20px;
                                                   The #masthead rule is where we need
        width: 800px;
                                                  to put the rounded corner image.
        color: #fff;
#nav (
        float: right;
                                                   Because the logo image has changed,
                                                   you need to adjust the nav list so it's positioned properly.
        font-size: 1.4em;
#wrap {
        clear: both;
        margin: 0 auto;
        padding: 10px;
        width: 780px;
        background: #fff;
        border: 10px solid #5c0505;
#header {
                                                  This is where you need to add the main
                                                   image we removed from the header.
#header h1 {
                                                   Then, the <hl> can be repositioned to
        font-size: 2em;
                                                   match the designer's comp.
```

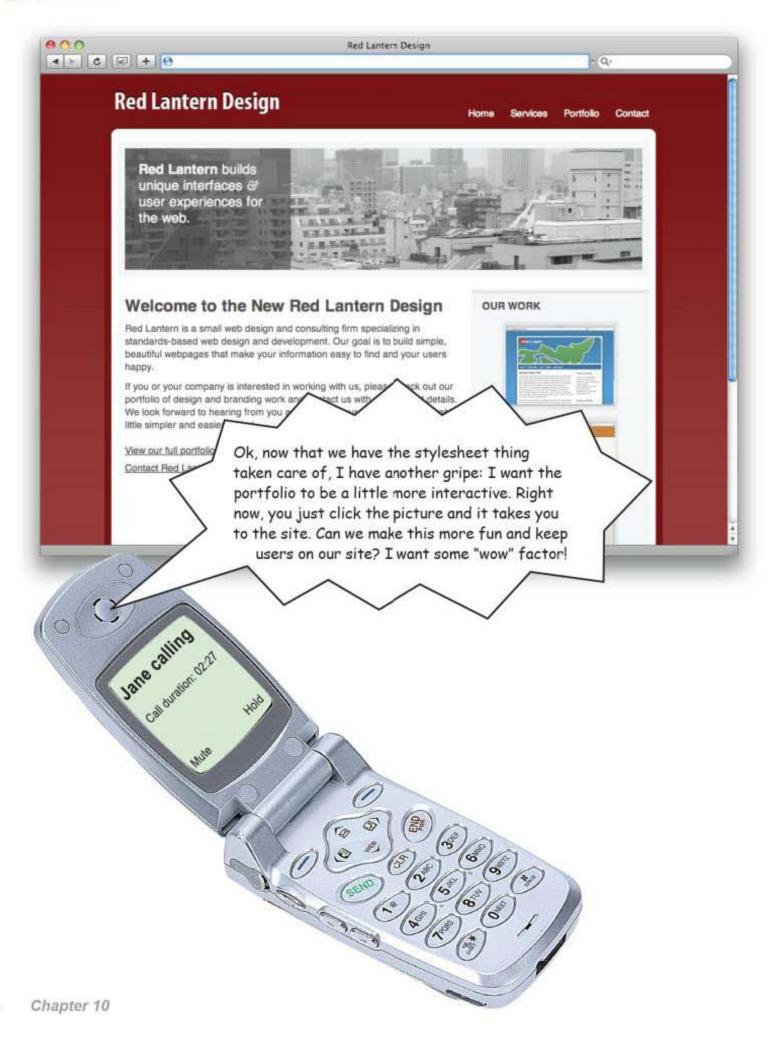


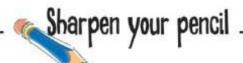


Let's take a look at the changes you made to the Red Lantern CSS file. Remember, rules that were not changed or removed can just be left the same as the old site.

```
Left side of rounded_header.gif
                                     (this is a long image with rounded
#masthead {
                                     corners on both ends).
       margin: 0 auto;
       margin-top: 20px;
       width: 800px;
       color: #fff;
       height: 70px;
       background: url('../images/rounded header.gif') no-repeat bottom;
#nav {
       float: right;
                                                Adding a height and background
       margin: 0 10px 0 0;
                                                image, we can give the corners a simple
       padding: 30px 0 0 0;
                                                rounded look.
       font-size: 1.4em;
                             Did you get this on? Because #masthead
#wrap {
                             has a background now, you need to remove
       clear: both;
                             the top border from the #wrap <div>
       margin: 0 auto;
       padding: 10px;
       width: 780px;
       background: #fff;
       border: 10px solid #5c0505;
       border-top: none;
#header (
       height: 180px;
       background: url('../images/tokyo updated.jpg') no-repeat;
       border: 10px solid #eee;
#header h1 (
       font-size: 2em;
                                              Now that the main image file is no
       line-height: 1.2em;
                                              longer hardcoded into the HTML file,
       padding: 20px;
                                              you can use a new image as the <hl>
       color: #eee;
                                               background in the CSS file.
       width: 200px;
       font-weight: normal;
                                                     This lets you keep the
                                                     semantics of the <h/> tag
                                                     but make the text appear as
                                                     though it's part of the image.
```

```
#content {
                        float: left;
                        width: 500px;
                        margin: 0 0 10px 0;
                                                                                     #content and #sidebar get their own
                        padding: 10px;
                                                                                     widths, and each are floated to either
                                                                                      side of the page. I Opx padding gives
            #sidebar {
                                                                                     the content of each column a little
                        float: right;
                                                                                      breathing room.
                        margin: 20px 0 20px 0;
                        padding: 10px;
                        width: 240px;
                        border-top: 5px solid #ddd;
                        background: #eee;
            #sidebar h2 {
                        font-weight: bold;
                        text-transform: uppercase;
                                                                                      These final adjustments make the
                        padding: 0 5px 5px 5px;
                                                                                      sidebar align and the overall look of
                                                                                      the portfolio match the design comp.
            #port li {
                                                                                      Each image now has a 5px border
                        margin: 10px 35px 0 35px;
            #port li img {
                       border: 5px solid #ddd;
                                  #00
|◆|◆||む||〒||+||冊
                                           Red Lantern Design
The final screenshot
                                             Welcome to the New Red Lantern Design
                                             Fied Lentern is a small web design and consulting from specializing at 
standards-based web design and development. Our goal is to build imple, 
beguitful webpaged that make your atormation saley to find and your users
                                             If you or your company is interested in working with us, please check out our portions of design and branding sent conduct us with your present details. We look forward to hearing from you and making your presence on the wide a little simpler and easier to find.
                                             Meetior_full_portfolio
                                                                                                       N. N
                                             Contact Red Lantern
                                                                                                       NE
                                                                                                     ZHANG.
```





Take a look at the following ways to make the sidebar portfolio more interactive. Match the technique with its list of pros and cons.



Pros: Good mix of interactivity and compatibility.

Cons: Some browsers may have this feature disabled or not fully support it.



JQuery JavaScript library **Pros:** All code is standards-compliant and will work in most browsers.

Cons: Low level of interactivity.



Pros: Limitless interactivity and animation.

Cons: Content not available in forms other than visual.



Let's see how the different effects options shape up:



Flash

Flash adds interactivity at the expense of hiding all your content in a single SWF file.



JQuery JavaScript library

JavaScript is very flexible, and when it teams up with XHTML and CSS, it can be very powerful.



7 XHTML + CSS

Although you can do some neat things with just CSS, it doesn't offer the level of interactivity that the owner needs.

Pros: Good mix of interactivity and compatibility.

Cons: Some browsers may have this feature disabled or not fully support it.

Pros: All code is standardscompliant and will work in most browsers.

Cons: Low level of interactivity.

JavaScript looks
like a great way to add
some interactivity to
the sidebar portfolio.

Pros: Limitless interactivity and animation.

Cons: Content not available in forms other than visual.



Hold on a second—I have to write JavaScript? That's complicated stuff, and I'm not a programmer!

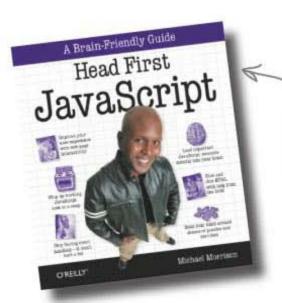


You don't need to be a crack programmer to add interactivity with JavaScript.

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/).



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 This looks great. Let's updated Red Lantern design. get this working on our Libraries like Facebox are a great site as soon as possible. way to add interactivity and highlight images and galleries on your site. 0 Red Lantern Desi 4 - 6 50 + 3 **Red Lantern Design** Audio 🚱 Go US€ 100 the Featured Books Download Weld Red La beautifu If you of portfoli We look little sin View ou CLOSE X When you click a thumbnail image, a larger copy of the same image is loaded ... with a white background, semi-opaque in the center of the screen... border (with rounded corners to match

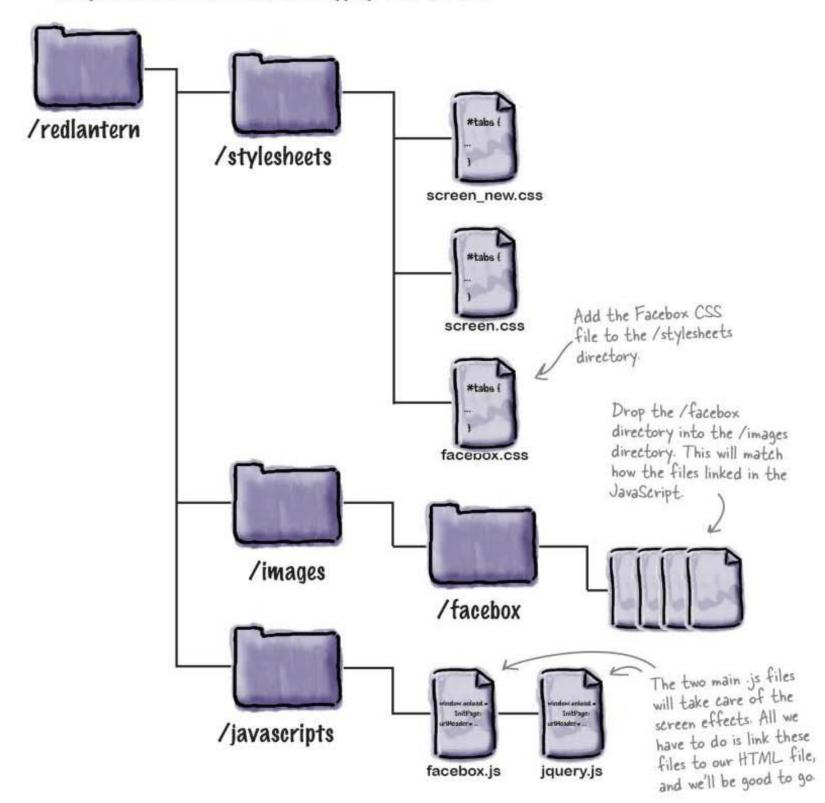
our new design), and a close button.

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

Add the CSS file to the header of the index.html file.

```
The Red Lantern
                                                                 index. html file.
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
       "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
```

Add the JavaScript links and code to the header of your index.html file.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
                      "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
                      <link rel="stylesheet" href="/css/facebox.css" type="text/css"</pre>
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.
```





Using this example above as a guide, add the Facebox effect to the rest of the list items in the portfolio. Remember to link the thumbnails to their full-size versions and provide the proper rel attribute to the link.

Add links to the portfolio images that point to a larger version of the same file. This larger image will be _ displayed in the lightbox.

The rel attribute describes the relationship of a link to the current page. Here, it's used to tell the Facebox JavaScript when a particular link is clicked.

Make sure you fully enclose the existing tags in the <a> tags. Basically, think of the image as if it were text inside the link tag.



Geek Bits

The rel attribute is used to describe the relationship between two resources. In the Lightbox case, the link relationship is to the Lightbox effect. This is purely a semantic relationship, but other resources (like JavaScript) can use that attribute to treat those links differently then a normal site link.



Let's take a look at what our portfolio markup needs to look like for the lightbox effect to work properly:

Images aren't the only thing that can appear in the lightbox. Text content within a tag or complete HTML documents can also be displayed through the lightbox.

Each link needs to have the rel="facebox" attribute for the effect to work properly. Without that bit of code, the JavaScript wouldn't know to execute.



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?

Dumb Questions

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.

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.

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 content-based, 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 one-time 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.

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.

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:



BULLET POINTS

- 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!

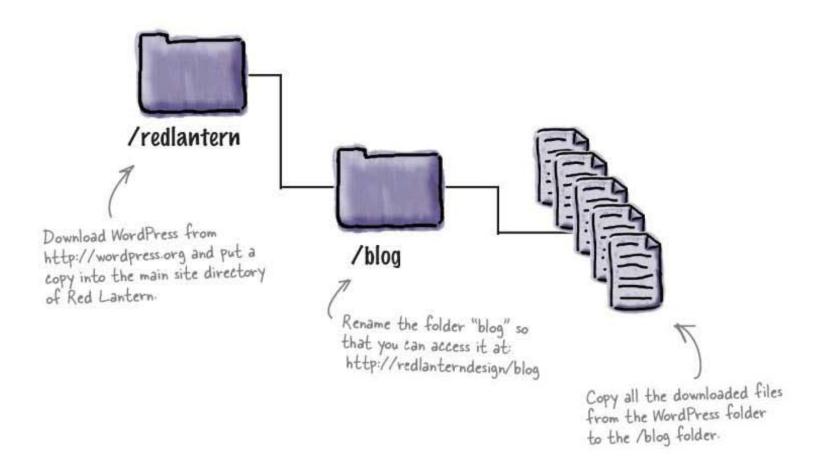
This is default "Kubrick" theme that ships with WordPress and is designed to work with all of the special features of WordPress.



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/





Geek Bits

WordPress requires a server with PHP and MySQL (an open source relational database) to operate properly. If you don't have access to a server or hosting plan (most web hosts fully support WordPress), check out this site and learn how to run WordPress locally on your PC or Mac using XAMPP, an installable set of software that gives you a working web server on your desktop.

http://www.apachefriends.org/en/xampp.html



Complete the WordPress installation and get the Red Lantern blog up and running.

You'll have to rename wp-config-sample.php to the following:

Edit and rename the wp-config.php file so that the parameters match the ones from your own setup.

Following the installer, get the basic blog up and running on your local machine or server. Remember, we want to access WordPress at /blog.





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!

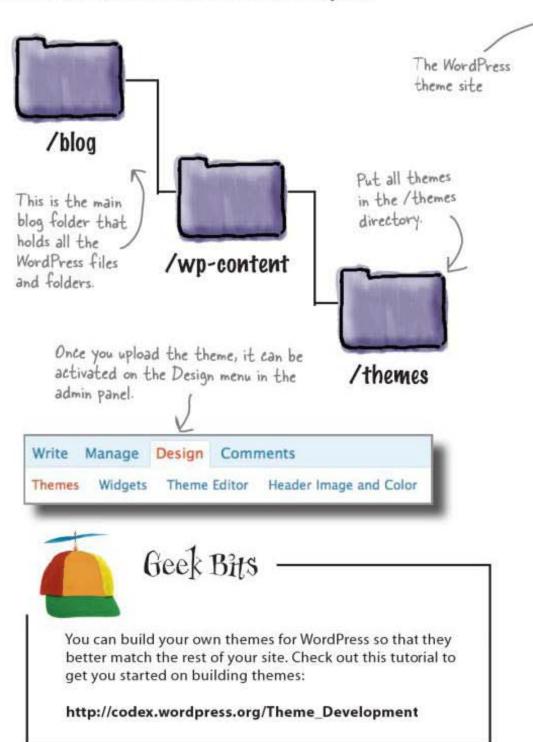


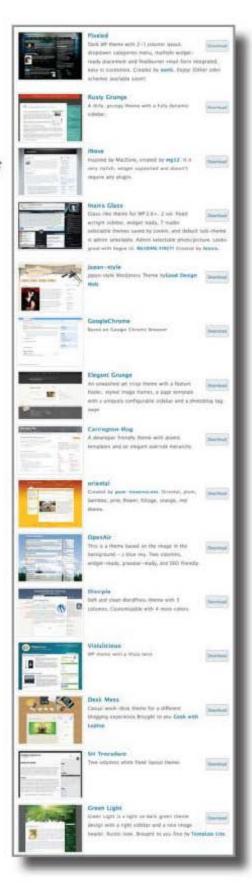
Take a look at what the blog looks like after you complete the WordPress installation.



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.







Your Web Design Toolbox

You've got Chapter 10 under your belt, and you've added some fresh content to your homepage.



BULLET POINTS

- Your personal site is your best PR tool.
- 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.

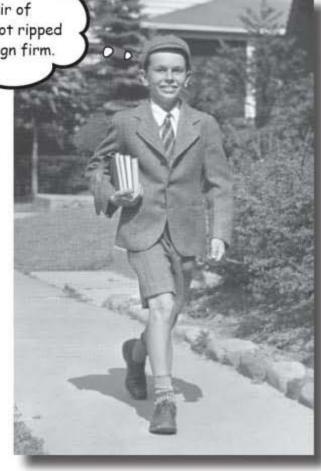
- A blog provides you with a way to keep your content fresh and updated, as well as create a direct line of conversation with your users.
- Hosted blog systems are created, administered, and maintained by a 3rd party (usually administered by the user through an easy to use online interface).
- Installed 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)

11 the business of web design



Mind Your Own Business

I can't even afford a pair of pants since my design got ripped off by a rival web design firm.



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.

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?



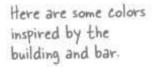
What Foo Bar wants in a bid:

- 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.



The Foo Bar owner

A quick sketch by . the owner







Spec work refers to doing a lot of work before getting paid. In this case, the Foo Bar owner wants a site mockup to look at before he commits to your work and Red Lantern design. Why do you think Jane doesn't usually do spec work?

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"</pre>
      "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"/>
  <link rel="stylesheet" href="stylesheets/screen.css" type="text/css"</pre>
       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>
    <1i><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 © The Foo Bar, all rights reserved.
   </div>
  </div>
</body>
</html>
```



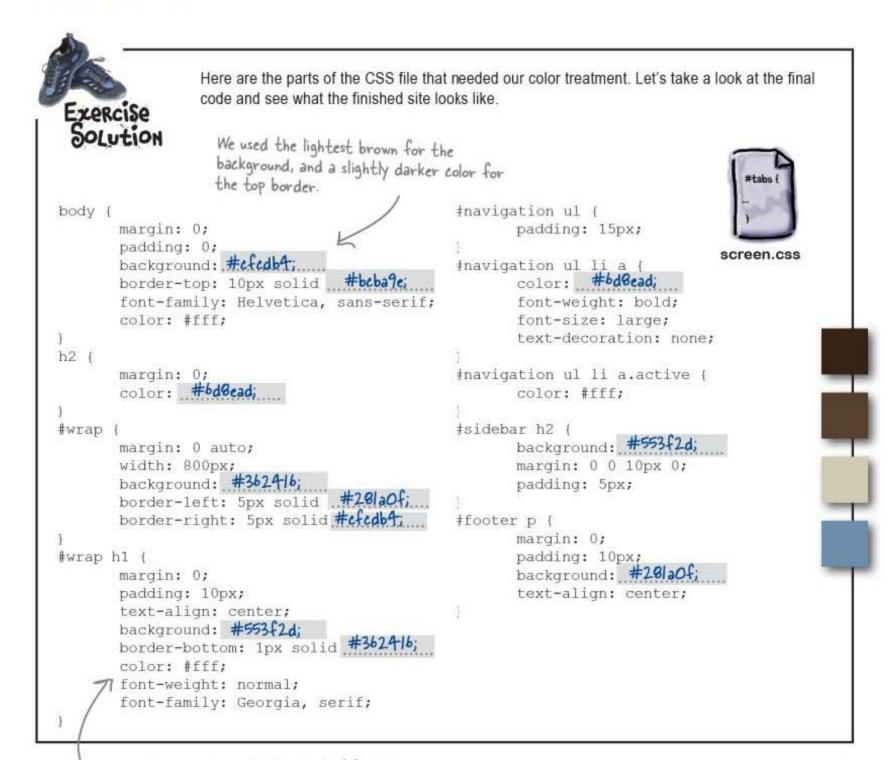
index.html



Create a new stylesheet, screen.css, and add in color and font faces. Use what you've learned so far to give Foo Bar a nice contemporary look. Make sure you create a logical directory structure and link all the files properly in your index.html file, too.

```
#navigation ul (
body {
      margin: 0;
                                                padding: 15px;
      padding: 0;
      background: .....
                                          #navigation ul li a {
      border-top: 10px solid .....
                                                color: .....
      font-family: Helvetica, sans-serif;
                                                 font-weight: bold;
      color: #fff;
                                                font-size: large;
                                                text-decoration: none;
h2 {
                                          #navigation ul li a.active {
      margin: 0;
      color: .....
                                                color: #fff;
#wrap (
                                          #sidebar h2 {
      margin: 0 auto;
                                                background:
      width: 800px;
                                                margin: 0 0 10px 0;
      background: .....
                                                padding: 5px;
      border-left: 5px solid .....
      border-right: 5px solid .....
                                          #footer p {
                                                margin: 0;
#wrap h1 (
                                                padding: 10px;
      margin: 0;
                                                 background:
      padding: 10px;
                                                 text-align: center;
      text-align: center;
                                          1
      background:
      border-bottom: 1px solid .....
      color: #fff;
      font-weight: normal;
                                               Play around with different
      font-family: Georgia, serif;
                                               combinations of the colors the Foo Bar
}
                                               owner gave you and see what works best
                                               for the layout
```

screen.css



The #wrap <div> gets the darkest browns and offers a nice contrast with the white text and light background.



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.



Then, three months later...

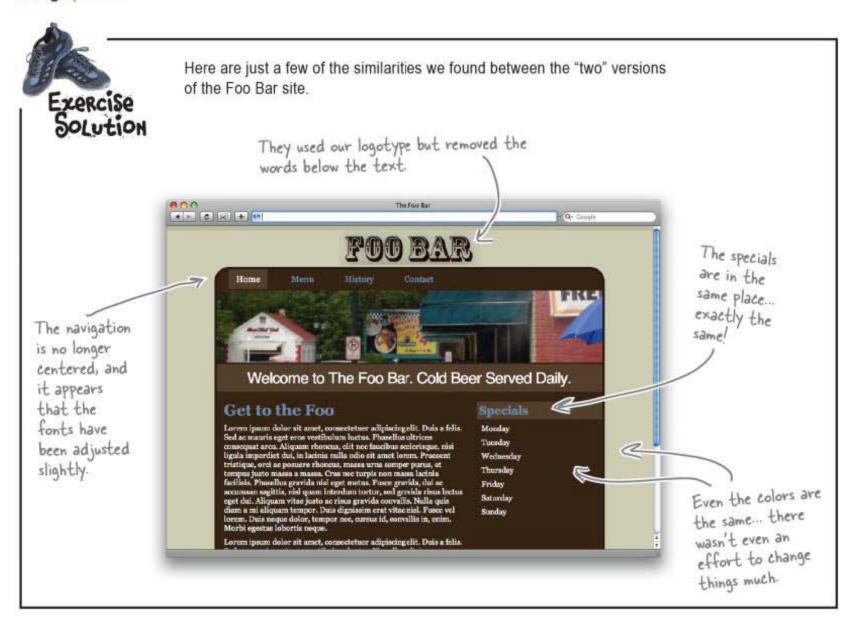




Here's the design the Foo Bar

went with.

Team States (The Proposition of the Proposity of the Proposition of the Proposition of the Proposition of th



Dumb Questions

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.

But this is the Web. Everyone rips everyone else off, right?

A: Well, it's like Mom said: just because your friends are doing 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.

Okay, they definitely ripped us off. So what do we do?

A: Good question...

Welcome to the world of <u>PESIGN PIRACY</u>

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.

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.



Red Lantern Design <redlantern@gmail.com>

Unauthorized use of copyright

2 messages

Red Lantern Design <redlantern@gmail.com>

Reply-To: redlantern@gmail.com
To: The Foo Bar <contact@thefoobar.com>

To whom it may concern,

Sat, Nov 15, 2008 at 2:17 PM

Be polite, firm, and don't be afraid to mention "legal action" to get your point across.

It has come to our attention that your establishment is using our (Red Lantern Design) copyrighted material without permission. We had recently written a bid for your company and it appears that the design we submitted for consideration has ended up as your homepage. We were not notified that we had won the bid and received no compensation for the use of that design or for our services. We are asking you to please remove the material from your homepage and discontinue any further use of our copyrights or risk legal action taken on our behalf.

Thank you

Red Lantern Design, LLC

The Foo Bar <contact@thefoobar.com>

To: redlantern@gmail.com

Red Lantern,

We are terribly sorry for the misunderstanding and it's obvious that the site we have posted definitely looks strikingly similar to the design you submitted. We have removed the copyrighted material and are no longer using any designs or logos associated with Red Lantern. Again, we appologize for the misunderstanding and hope we can avoid any and all legal action. Please let us know if there is anything else we can do.

[quoted text hidden]

Sincerely,

Foo Bar Management

Foo Bar obviously wasn't expecting us to look at their site and seemed eager to avoid legal action. Sometimes, just the thought of legal trouble is enough to get people to comply.

expecting this to drag out. I'm glad they are taking the site down.

I was

Be clear, explicit, polite, and formal in any correspondence with possible design pirates.

Okay, this totally sucks. I have no desire to deal with all this infringement and copyright crap. I just want to design web sites!



There's more than one type of web designer.

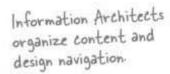
Some folks want to just design sites. Others have visions of starting companies and poring over spreadsheets. Of course, most folks fall somewhere in the middle. There are lots of different roles, even just in the web design universe. Are you wondering what parts of web design you need to worry about?

Which of these types of web workers do you think you are?



Front-end Designer

This job is mostly HTML and CSS. Front-end designers are part programmer, part graphic artist, and build much of a site's user interface.





Information Architect



User Experience Pesigner



Graphic Designer

A graphic designer may design user interfaces offline, develop artwork, and work closely with the front-end designer to implement an interface.

User experience designers work with the whole team to develop a consistent, usable interface. They may also be in charge of running and managing usability tests.



Copywriter

In some large design studios, a copywriter may be used to help build and write content

be responsible for writing backend code that controls features of a website. They could also write Javascript and build AJAX functionality.

A programmer may



Programmer

you are here >



Answer the questions in the Web Worker Job Poll to see what part of the web design universe you fit into. Add your score up at the bottom of the next page and see where you fit.

What kind of web worker are you?

Circle the number (1 = Not Interested to 5=Very Interested) that represents your interest in the given task description.

- I enjoy writing code that supports the content management of sites and interacts with databases.
 - 1 2 3 4 5
- I want to make sure that users can find their way through a site and that the overall design looks great and works properly.
 - 1 2 3 4 5
- I like working with content and organizing information on a website.
 - 1 2 3 4 5
- I really like design, but I want to be able write some code.
 - 1 2 3 4 5

1	2	3	4	5	
	ijoy ma ascript		1	s behave like desktop applications wi	th
1	2	3	4	5	
wit	h webs	ites.		r patterns by observing how others i	nterac
wit		ites.			nterac
wit	h webs	ites. 3 ink ab	4 out nav		
wit	h webs 2 xe to th	ites. 3 ink ab	4 out nav	5	
l lik	h webs 2 ce to th a partic	ites. ink abeular pi	4 out nav roject. 4	igation and what content is most im	
With like to a	te to the partice with the particle with the part	ites. ink abeular possible segments in the se	out navroject. 4	igation and what content is most im	

business structures

0

So, I'm a front-end designer. I thought so... but what does that have to do with dealing with copyrights and stuff?



Choose your job—and your business—based on knowing who you are in the Web universe.

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:

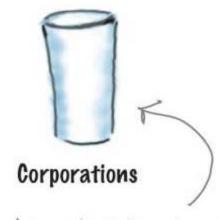
This is the simplest form of business structure because there isn't actually any structure. All income and liabilities are accrued by the owner on their personal finances.



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.





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

Limited Liability Companies



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	Write the business structure you think best fits the description of the company.
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 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...



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.



Sharpen your pencil

Now that you know what the requirements are for the site, take a few minutes and think about how much a site like this would cost and roughly how much time it would take you to complete. Write down your estimates in the space below.

Time (hours)

Cost (Pollars)

Just guess? There's got to be a better approach. Besides, shouldn't the cost be a result of our hourly rate? How should we come up with reasonable rate?

You need to know your hourly rate before bidding on any contract work.

Whether you're working for yourself, Red Lantern design, or a huge company, you should have an idea of what your hourly rate of work is. Then, you can figure out the time it will take to complete a project, and turn that into a real, fair price.

The worst thing you can do is overbid, or underbid. One will leave you out of work... and the other out of money! Here's a really easy way to come up with a reasonable hourly rate:



Your desired annual salary

Hourly Rate = $60,000 / ((8 \times 5 \times 50) \times .60)$

Total hours worked in a year (8 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.

\$50/hour



Now think about how much time might go into each part of the web design process and write your estimate in the space provided.

estimate in the space	provided.
Write your estimate in	total hour this column.

Initial Input Time

This is the time spent initially meeting with clients and getting to know what their needs are and what they expect from you.

Conceptual Time/Pre-production

Pre-production is where you will look at site content, design an information architecture, and come up with storyboards.

Prafts and Pesign Revisions

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!

Production time

This is where you start writing code. HTML, CSS and Javascript could all make an appearance at this stage. Final designs are delivered.

Other costs

These costs could include travel, supplies, and other time or material that should be billed to the client.

bumb Questions

Woah, I have no clue how long any of this stuff will take!

A: That's okay... just take your best guess. Think about similar projects where you've worked on the various stages, and try and remember how much time you spent working. It's okay to just estimate.

And I only estimate actual time that I'm working, not breaks or anything, right?

A: Actually, your estimates should include the entire project time: that means including breaks, trips to get supplies, and anything else related to working on this particular project.

What if I've got other people on my team?

A: Good question. In those cases, two people working for an hour each is two hours of work time. So you're estimating the total "person hours" a project will take, not the number of hours in a day or week.



What really goes into designing a website?

Initial Input Time

This is the time spent initially meeting with clients and getting to know what their needs are and what they expect from you. 20 hours

This includes about 5 hours of meeting time, 13 hours of research, and a few for travel.

Conceptual Time/Pre-production

Pre-production is where you will look at site content, design an information architecture, and come up with storyboards.

30 hours

IA diagrams and storyboards could take the better part of two weeks to complete.

Prafts and Pesign Revisions

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! 40 hours

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 Javascript could all make an appearance at this stage. Final designs are delivered.

40 hours

This time is all production. Markup, style and design. Code, code, code.

Other costs

These costs could include travel, supplies, and other time or material that should be billed to the client. 10 hours

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 = $60,000 / ((8 \times 5 \times 50) \times .60) = 50/hr$

(140 hours) x (\$950.00/hr) = \$7000.00

This price represents the cost of a small-to medium-sized website done by an individual charging \$50/hour.

Dumb Questions

O: 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).

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.

Us \$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.

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.



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.



Now that you have a better idea of the time and costs of a typical web project, let's use the Red Lantern estimate worksheet to generate a quote for the Trilobite Labs project. Check off the client requirements as they are covered in the estimate.

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. to choose from, and an ability to provide design feedback that will get incorporate into the final site. Low-key usability testing to make sure the aren't any problems before the site goes I	7	A static website with a front page, an Al	bout \square	Soveral different	t designs (nance is	fina)
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Background Research:	Jo Cli Pr	b Pescription: ient Name: oject Description:	Hours	Rate	Total	•••••••
Travel:	Jo Cli Pr	b Pescription: ient Name: oject Description: itial Input Time: ient Meetings:	Hours 4	Rate x	Total = \frac{1}{300}	0.00

Pre-production Time:	Hours	Rate	Total
In-house Meetings: Information Architecture: Wireframes: Theme Concepts: Prafts and Pesign Revisions: Client Meetings: Storyboards: Storyboard Revisions:		xx	Copy this sheet! We know you won't have any good ideas of all these costs. The idea here is to see what a real bid sheet might look like. In fact, you may want to copy this sheet for your own bids. The next page has some sample of the copy this copy has some sample of the copy that the copy has some sample of the copy this page has some sample of the copy this copy has some sample of the copy this page has some sample of the copy this copy that the copy has some sample of the copy this copy that the copy this copy has some sample of the copy that the cop
Production Time: XHTML and CSS: Back-end Programming: Graphics and Artwork: Copywriting: Validation and Debugging:		xxxx	what a real web design job might cost, too.
Miscellaneous Expenses: Fonts and Graphics: Software: General Supplies		x	= = =
Totals	Total Project Hour	'S	Total Cost



Now that you have a better idea of the time and costs of a typical web project, let's use the Red Lantern estimate worksheet to generate a quote for the Trilobite Labs project. Check off the client requirements as they are covered in the estimate.

Client Requirements



A static website with a front page, an About page, a contact page, and three separate product pages.



Several different designs (paper is fine) to choose from, and an ability to provide design feedback that will get incorporated into the final site.



Standards-compliant code. Trilobite's site has to work on all sorts of devices, too.



Low-key usability testing to make sure there aren't any problems before the site goes live.

The job description briefly

outlines what the project entails.

It's also a nice refresher if you work on lots of projects.



Some type of screen effect for their product portfolio. Trilobite wants to appear cutting edge to represent their work on iPhone apps.

Red Lantern Project Estimation Worksheet (RLPEW)

Job Description:



Project Description: A website with less than 10 pages that will be used to promote a product (software). Client would like to see multiple design ideas before deciding on

a final version. All code must validate.

Initial Input Time:

Client Meetings:

Background Research:

Travel:

Hours Rate Total 4 x \$75/hr = \$300.00 x = 1500.00 $x = \frac{175}{hr} = \frac{17500}{1}$

20 hours should get us through the initial phase of the project This is mostly research looking at what other companies in your clients field are doing. This is sometimes called competitive analysis.

Pre-production Time: Hours Rate Total In-house Meetings: 2 x \$75/hr Information Architecture: Wireframes: Theme Concepts: 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 f75/br = f150.00Storyboards: $x = \frac{1}{2}$ (5) Storyboard Revisions: f75/hr = f375.00Drafts 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: **Back-end Programming: Graphics and Artwork:** Copywriting: \$150.00 Validation and Debugging: These expenses are not billed hourly. Typically they are billed at cost plus some percentage of markup. Miscellaneous Expenses: \$200.00 Fonts and Graphics: - x -\$55.00 Software: \$100.00 General Supplies Building great websites takes time and money. \$10,030.00 129 hours Totals 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.



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.



Using the template below, outline the project for Trilobite Labs in a proposal letter, so they can see what we're doing and where their money is going.

We need to know who this is for	To:	
and when we quoted it.	Pate:	
>	vare.	
	Service:	
A breakdown of the		
services and costs will help the client		
understand what we are doing.	Cost:	
A tentative schedule so that the client		
knows how long the project is expected to take.	Schedule:	
>	Terms	
These are the		
payment and contract terms.		
		you are here >

ercise OLution		
To:	Trilobite Labs 1234 Michigan Ave	Make sure you get the addr
Date:	November 24, 2008	right That's pretty impor
Service:	A 6-8 page website using valid code which includes all information design, graphic design and XHTML page templates.	Outline the ser
Cost:	Planning and Pre-production	and cost so the customer knows exactly what the are getting in
Oalaadula.	Expenses \$355. TOTAL \$10,030.	A schedule will keep you on ta
Scheaule.	4. weeks: Deliver IA and wireframes 8 weeks: Design drafts and revisions 16 weeks: Final delivery	give your client idea of when the can expect a f finished product
Terms	25% is required to start project, the remainder of which will be paid upon delivery. This quote is good for 60 days.	Set terms so y get paid on ti and make sure that the clien signs the lett make it office

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 <u>Creative Commons</u> 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.



Trilobite wants to upload the company podcasts to the Apple iTunes Store.

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?

Creative Commons Licenses

This page would not be possible without Creative Commons (http://creativecommons.org/about/license/)



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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.





Based on the requirements below, choose the Creative Commons license that best meets the needs of the Trilobite podcast.

- Trilobite wants anyone to be able to download, copy, distribute, and broadcast their podcasts.
- Trilobite wants to make sure that they always get credit for the podcast when it is copied, distributed, or broadcasted, in any format.
- Trilobite wants to make sure that the podcast isn't altered, edited, or mashed-up in any way, and when it's distributed or broadcasted, it's done so verbatim. No chopping up, please!
- Trilobite wants to make sure that if the podcast is distributed or broadcasted, it isn't for commercial reasons (for example, no 3rd party can make money by reselling the podcast).

Circle the license that meets the needs of the Trilobite podcast.



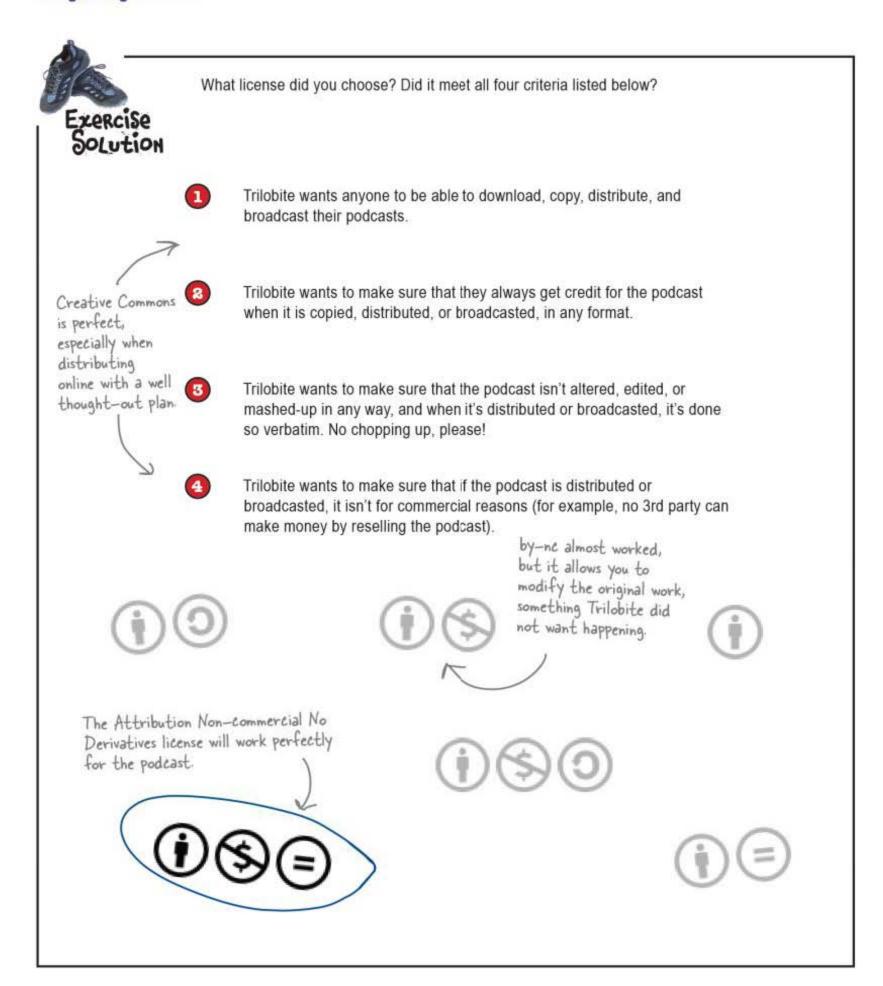












0

Just got word that we won the bid for the Trilobite project. They liked what they saw, and once they looked at the breakdown of costs, they realized that they were getting real value. They also really appreciated you figuring out the licensing, nice work!

Trilobite Labs To: 1234 Michigan Ave November 24, 2008 A 6-8 page website using valid code which includes all information .. Date: design, graphic design and XHTML page templates. Service: \$4575. Planning and Pre-production \$1650. Cost: Design Drafts \$3450. \$10,030. Schedule: A weeks: Deliver IA and wireframes.... 8 weeks: Design drafts and revisions 16 weeks: Final delivery. 25% is required to start project, the remainder of which will be paid upon delivery. This quote is good for 60 days Terms

Trilobite has

signed and is

ready to go.

Your Web Design 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.

appendix i: leftovers



* The Top Ten Things * (we didn't cover) *



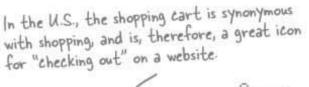
We've really covered a lot of ground in this book. The thing is, there are some important topics and tidbits that didn't quite fit into any of the previous chapters. We feel pretty strongly about these, and think that if we didn't at least cover them in passing, we'd be doing you a disservice. That is 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.

#1: Cross-cultural & international design

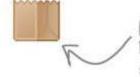
The web is a truly global place—and that means your websites have to be, too. People from every corner of the globe are checking out *your* sites. The thing is, everyone has a different cultural, linguistic, and ethnic background—all of which might impact how they interpret your site's design. There 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 many other parts of the world, shoppers bring their own shopping bags to the store. So a shopping bag, and not a shopping cart, might be a more appropriate metaphor for "checking out."

Pifferent 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:

"Click here for current site news."

_German

"Klicken Sie hier für gegenwärtige Aufstellungsortnachrichten."

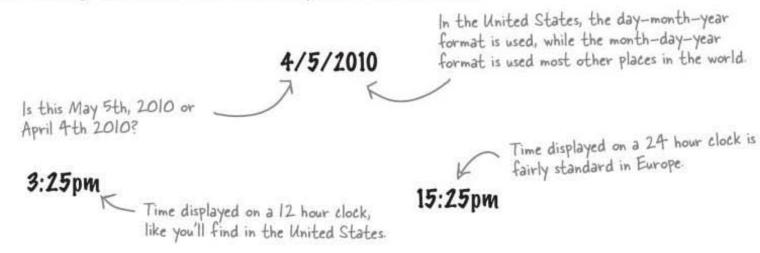
 Cyrillic (Macedonian, Russian, Serbian and Ukrainian, etc.)

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.

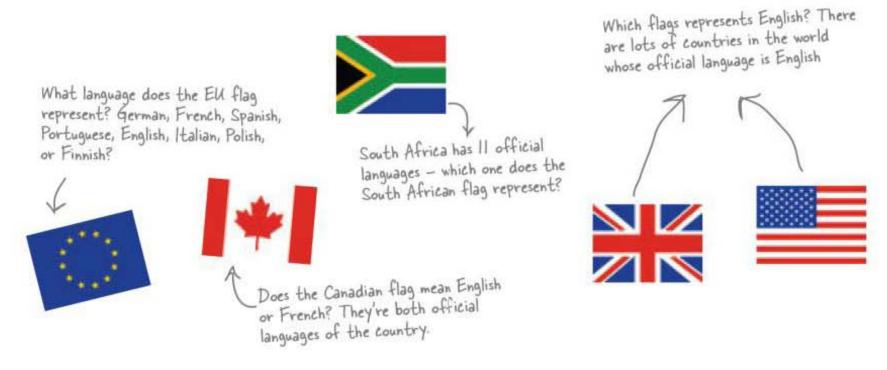
Is that the month or the year?

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 <u>really</u> 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

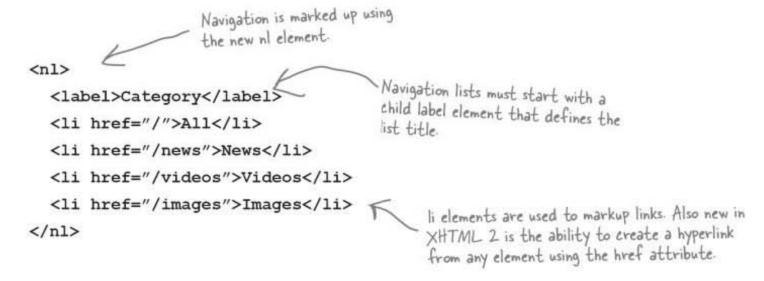
The web is constantly evolving. New markup and style specifications are being proposed, developed, and implemented by the **World Wide Web Consortium** (W3C)—all of which will have an impact on how web designers do their thing. Most notable are HTML 5 and XHTML 2.

HTML 5 vs. XHTML 2

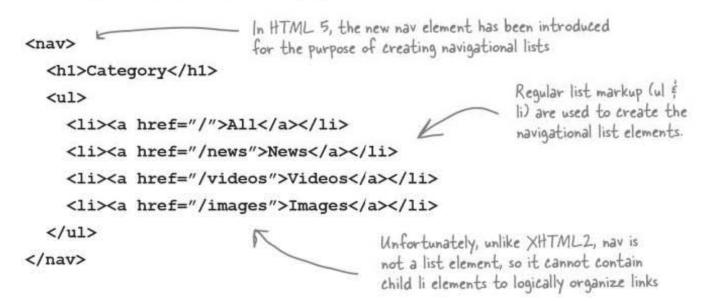
Both HTML5 and XHTML2 are specifications currently being developed by the W3C. This often causes confusion, as many people believe that XHTML 1.x was the successor to HTML 4.01 (and that HTML is effectively dead). So what's the difference between XHTML 2 and HTML 5? XHTML 2 is pretty much the successor 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:



In HTML 5, navigation lists look a little something like this:



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/

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#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).

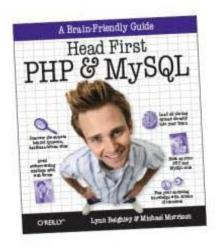
Create a stylesheet specifically for mobile devices using the CSS "handheld" media type. That way, you can format your page according to the limitations of the device.

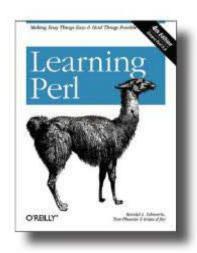
#5: Peveloping Web applications

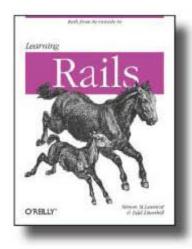
The web has developed to the point where you can not only create web pages, but you can also create **web applications**—web sites that act (in one way or another) like a desktop application. These web applications don't just display information, they actually **do** something.

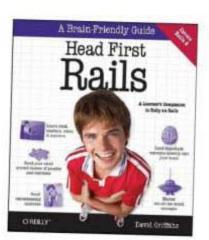
To create a web app, you'll need to work in a server side scripting or programming language. Options include PHP, Ruby on Rails, Perl, or ASP.NET. Each language has its own strengths and weaknesses, and with a little research, you'll find the one that fits your needs. The language you choose is determined 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:





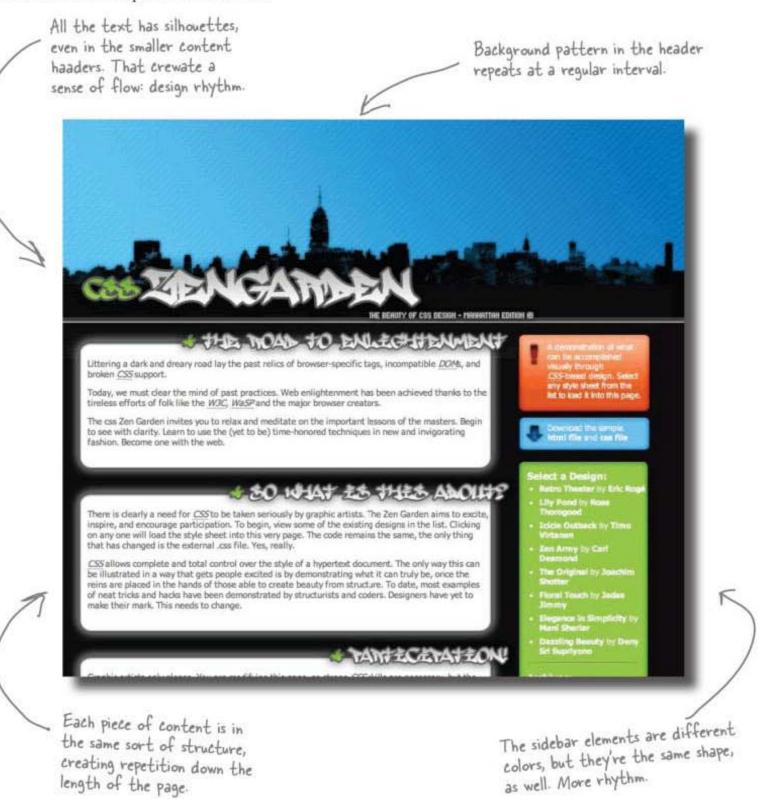




#6: Rhythm in your layout

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 negative text) is very legible because there is a high contrast between text color and background color.



Black text on a white background (called positive 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.

The firm of those principles was "The section plusion of Vertical vanishing or antifying cry of Vertical Collecting Neurope, which were down to thems when a beside burde with Microsoft, What's more, bore of marinistal Web LO complete, Deathle Cleb and Akaman, were both pictures to treating the web as a plustical People final offers that winds of mar back arrange on the first which deployed web marine, and the first which displayed back marine, and the first which displayed marines are quarter mean that has quinted marines of hims.

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.

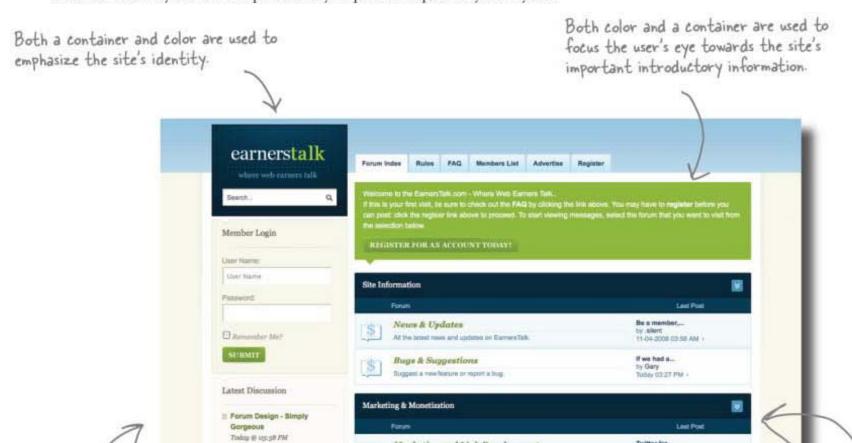


#9: Contrast is a fundamental layout device

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.



Marketing and Link Development

Search Engine Optimization

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.

Posted by: Gareth | [BLOG POST] Free PSD to

> A contrasting color is used to focus the user's eye on important headers.

Twitter for...

5 starter... by Bradfordp2012

#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:

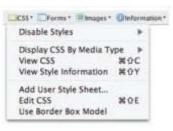
Pencil is an incredibly powerful little open source app that is designed specifically to create storyboards, interface prototypes and design diagrams. It comes in two flavors: a Firefox add-on and a desktop app (only Windows and Linux - sorry, no Mac version yet). Honestly, Pencil is pretty much an image 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/

