



THE PRINCIPLES OF BEAUTIFUL WEB DESIGN

BY JASON BEAIRD



DESIGN BEAUTIFUL WEB SITES USING THIS SIMPLE STEP-BY-STEP GUIDE

The Principles of Beautiful Web Design

Thank you for downloading this sample chapter of Jason Beaird's book, *The Principles of Beautiful Web Design*, published by SitePoint.

This excerpt includes the Summary of Contents, Information about the Author, Editors and SitePoint, Table of Contents, Preface, the first chapter of the book (*Layout and Composition*), and the index.

We hope you find this information useful in evaluating this book.

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*To my wife Amy, who inspires me every day to reach for my goals
no matter how unprepared I am for them when I get there.*

You truly are my better half.

*To my mom and dad.
You have no idea how much the craft shows, cereal box animals,
and driftwood paintings have contributed to my creativity.*

*To Nathan, Ryan, and Russ, “The Programmers” at Acceleration.
Your random color choices and offbeat design decisions
are the inspiration for this book.*

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As Technical Director for SitePoint, Kevin Yank oversees all of its technical publications—books, articles, newsletters, and blogs. He has written over 50 articles for SitePoint, but is best known for his book, *Build Your Own Database Driven Website Using PHP & MySQL*. Kevin lives in Melbourne, Australia, and enjoys performing improvised comedy theatre and flying light aircraft.

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2 <http://www.andyrutledge.com/>

3 <http://www.netsuccess.com/>

4 <http://www.lookwhotoxic.com/>

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Preface

When my wife and I moved into our house, one of our first major projects was to update the bathroom. The horribly gaudy floral wallpaper pattern, in combination with the gold sink fixtures, obnoxious mirrors, and tacky lighting, made us feel like we'd stepped into a previous decade every time we entered the master bathroom. Removing wallpaper is a tough job, but it's even more difficult when there are multiple layers of the stuff. This was the case with our bathroom. Apparently the previous homeowners' taste in wallpaper changed every few years, and rather than stripping off the wallpaper and starting over, they just covered ugly with more ugly. Ah, the joys of home ownership!

If there's one thing our renovation adventures have taught me, it's that there are strong parallels between designing a room's decor and designing a good web site.

■ **Good design is about the relationships between the elements involved, and creating a balance between them.**

Whether we're talking about a web site or bathroom makeover, throwing up a new layer of wallpaper or changing the background color isn't a design solution in itself—it's just part of a solution. While we removed the wallpaper and rollered some paint onto our bathroom, we also had to change the light fixtures, remove the gold shower doors, replace the mirrors, upgrade the lighting, paint the cabinets, change the switches and plugs, and scrape off the popcorn ceilings. If we'd just removed the tacky wallpaper and left all the other stuff, we'd still have an outdated bathroom. Web site design is similar: you can only do so many minor updates before the time comes to scrap what you have and start over.

■ **Fads come and go, but good design is timeless.**

Conforming to the latest design trends is a good way to ensure temporary public appeal, but how long will those trends last? As far as I know, there was hardly ever a time when **marquee** and **blink** tags were accepted as professional web design markup ... but scrolling JavaScript news tickers, "high readability" hit-counters, and chunky table borders have graced the homepages of many high-profile sites in the past. These are the shag carpets, sparkly popcorn ceilings, and faux wood paneling of the web design world. Take a trip in the Internet Wayback Machine, and look for mid-'90s versions of some of the top Fortune 500 and pre-dot-com-boom-era web sites.⁵ Try to find examples of good and bad design. In the midst of some of the most outdated web sites, you're likely to find some designs that still look good. Most likely, those graphical elements weren't dependent on the "cutting edge" filters in what, at the time, was the recently released Photoshop 4.0. Good design transcends technology.

⁵ <http://www.archive.org>

■ The finishing touches make a big impression.

I've heard it argued recently that deep down, people really love "anti-marketing design." The idea is that we trust sites that have an unpolished appearance and don't feel professional. I think this argument misses the point. No matter what type of web site you're developing, the design should be as intentional as the functionality. My wife and I didn't change the functionality of our bathroom with the work that we did. We just fine-tuned the details, but they made a world of difference. Some people might have been able to live with the bathroom the way it was, but I doubt you'd find anyone who would say it was exactly what they wanted. Similarly, if you're spending time developing a web site, you should take time to design it. Under no circumstances should the design feel unpolished or haphazard. If you want to come off as anti-marketing and non-corporate, then do that, and do it well—but there's no reason to be ignorant about, or feel intimidated by, design.

My goal with this book is simple: To present what I know about design in a way that anyone can understand and apply. Why? Because the basics of web site design should be common knowledge. We all live in and work on an Internet that has been blindly covering up ugly with more ugly since its inception. It's time to break that chain and make bold moves toward better design.

Who Should Read this Book?

If you are squeamish about choosing colors, feel uninspired by a blank browser window, or get lost trying to choose the right font, this book is for you. In it, I take a methodical approach to presenting traditional graphic design theory as it applies to today's web site development industry. While the content is directed toward programmers and developers, it provides a design primer that will benefit readers at any level.

What's in this Book?

■ Chapter 1: Layout and Composition

An awareness of design relies heavily on understanding the spatial relationships that exist between the individual components of a design. The layout chapter kicks off the design process by investigating possible page components. With these blocks defined, we discuss some tools and examples that will help you start your own designs on a solid foundation. Finally, we commence the development of a layout for our sample web site design, which we'll build on throughout the book.

■ Chapter 2: Color

Perhaps the most mysterious aspect of design is the topic of color selection. Chapter 2 sheds some light on this topic as we delve into both the aesthetic and scientific aspects of color theory. Armed with these simple guidelines, and some tips for creating harmonious color combinations, anybody can choose a set of colors that work well together to complement the overall message of a web site. We'll do just that toward the end of the chapter, when we select a relevant and attractive palette for our sample web site design.

■ Chapter 3: Texture

An aspect of web design that's often overlooked, texture is the key to creating designs that stand out. By understanding how the individual elements of texture function, you'll learn how to use points, lines, and shapes to communicate and support your site's message on a number of levels. We'll then apply what we've learned to the sample site layout, which will give us a chance to see firsthand just how much value texture can add to the overall impact of a web site design.

■ Chapter 4: Typography

The importance of typography is self-evident. Type is everywhere, and understanding the mechanics of written language is essential for any visual designer. In this chapter, we'll dive beneath the surface of this rich topic, exploring the basics of the letterform, and investigating various typeface distinctions. When the time

comes, you'll have the opportunity to get your hands dirty as we apply carefully selected typefaces to our sample site design.

■ Chapter 5: Imagery

The necessary companions to any well-designed site are the images and illustrations that grace its pages. In the final chapter, we'll discuss what we should look for in the visual elements that we use on our pages, and locate sources of legitimate supporting imagery. Of course, finding the right image is often just the beginning. We'll also learn the basics of cropping, masking, borders, and file formats, before we take the final step in our sample site design: incorporating imagery that supports our clients' branding, and helps communicate the message they're trying to convey.

This Book's Web Site

Located at <http://www.sitepoint.com/books/design1/>, the web site that supports this book will give you access to the following facilities.

Updates and Errata

The Corrections and Typos page on the book's web site, at <http://www.sitepoint.com/books/design1/errata.php>, will always have the latest information about known typographical and code errors, and necessary updates that reflect changes to technologies.

The SitePoint Forums

While I've made every attempt to anticipate the questions you may have, and answer them in this book, there is no way that any publication could cover everything there is to know about web design. If you have a question about anything in this book, the best place to go for a quick answer is the SitePoint Forums—SitePoint's vibrant and knowledgeable community.⁶

The SitePoint Newsletters

In addition to books like this one, SitePoint offers free email newsletters. The *SitePoint Tech Times* covers the latest news, product releases, trends, tips, and techniques for all technical aspects of web development. The long-running *SitePoint Tribune* is a biweekly digest of the business and moneymaking aspects of the Web. Whether you're a freelance developer looking for tips to score that dream contract, or a marketing major striving to

⁶ <http://www.sitepoint.com/forums/>

keep abreast of changes to the major search engines, this is the newsletter for you. The *SitePoint Design View* is a monthly compilation of the best in web design. From new CSS layout methods to subtle Photoshop techniques, SitePoint's chief designer shares his years of experience in its pages. Browse the archives or sign up to any of SitePoint's free newsletters at <http://www.sitepoint.com/newsletter/>.

Your Feedback

If you can't find your answer through the forums, or you wish to contact me for any other reason, the best place to write is books@sitepoint.com. SitePoint has a well-manned email support system set up to track your inquiries, and if the support staff are unable to answer your question, they send it straight to me. Suggestions for improvement as well as notices of any mistakes you may find are especially welcome.

CHAPTER 1

Layout and Composition

For many web developers, myself included, the most intimidating part of the design process is getting started. Imagine for a moment that you're sitting at your desk with nothing other than a cup of coffee and the business card of a potential client who needs a basic corporate web site. Usually, a business card speaks volumes about a company's identity, and could be used as design inspiration.

Unfortunately, that's not the case with the card for Smith Services in Figure 1.1. It's black and white, all text, no character, blah. Talk about a blank canvas! So, where do you go from here? You need a plan ... and you need to contact Mr. Smith. With some critical input from the client about what his company actually *does*, and by gathering information about the content you have to work with, you'll be able to come up with a successful layout and design.



Figure 1.1: A bland client business card

Anyone, no matter what level of artistic talent he or she has, can come up with a design that works well and looks good—all it takes is a little experience and a working knowledge of some basic layout principles. So let's get started with the basics and before long you'll have the foundation necessary to design gallery-quality web sites.

The Design Process

In a web-programming book I read recently, the author introduced a fictional scenario to explain why readers needed to design a page layout and create a style sheet for the example application. He basically said that the company web designer was off getting inspiration from somewhere and wouldn't be back until later in the year. It sounded as if he was implying that designers are prone to flake out and go on vision quests for months at a time, but I'm going to assume the author made that comment in an endearing way, and introduce the same scenario.

Here are the hypothetical details of this scenario: Jim Smith of Smith Services needs a web site. We have his business card and he's eager to get started. Unfortunately, the designer is out of town ... wait, that's not a good excuse. Let's say he was injured during a freak dairy cow stampede while attending the South by South West Interactive (SXSWi) festival in Austin, Texas. Yeah, that's believable. Anyway, he's out for a few months, and you're on your own. So where do you start? The actual process of developing an entire site or web application includes a lot of steps, but the process of creating a design comp boils down to only two tasks: discovery and implementation.

Discovery

The discovery component of the design process is about meeting the clients and discovering what they do. This may not feel like a "designy" task, but gathering information about who your clients are and how they run their business is the only way you'll be able to come up with an appropriate and effective design.

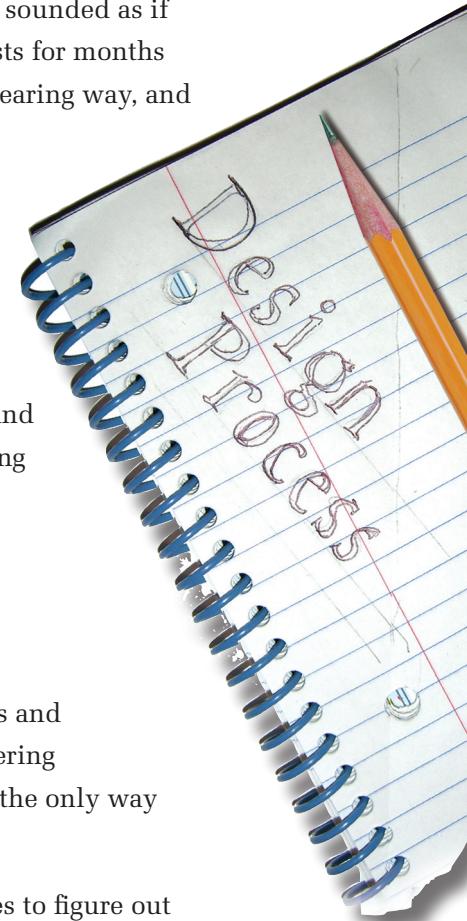
Before you schedule your first meeting with your clients, take a few minutes to figure out what they do and how they do it. If they've asked you to design a web site for them, they may not currently have one, but Google them anyway. If you can't find any information about their business specifically, try to learn a little more about their industry before the

first meeting. Whenever possible, the first meeting with a client should be an actual person-to-person meeting. Sometimes, distance will dictate that the initial meeting will occur over the phone, but if the client is in town, schedule a time to meet.

Keep in mind that this meeting isn't about impressing the client, selling yourself, or

NOTE What's a Comp?

The word **comp** is an abbreviation of the phrase comprehensive dummy, and is a term that comes from the print design world. It's a complete simulation of a printed layout that's created before the layout goes to press. In translating this term to web design, a comp is an image of a layout that's created before we begin to prototype the design in HTML.



selling a web site. The initial client meeting is about communication. Try to listen more than you speak, and bring a pad of paper on which you can make notes. *Do not* bring a laptop. Computers have screens, and people tend to stare at them. If the client isn't staring at the screen the whole time, you will be as you write your notes. If you must drag some technology into the meeting, bring a voice recorder. In my experience, though, a pad of paper is less threatening to the often not-so-tech-savvy client.

Here are a few of the questions I like to ask in initial client meetings even if I've already answered them myself via a search engine:

- What does the company do?
- What is your role in the company?¹
- Does the company have an existing logo or brand?
- What is your goal in developing a web site?
- What information do you wish to provide online?
- Who comprises your target audience? Do its members share any common demographics, like age, sex, or a physical location?
- Who are your competitors and do they have web sites?

Sometimes I start off with more questions than those listed here—use your imagination and try to come up with some creative queries that will really give you more insight into the client organization. If you're a programmer, avoid the tech jargon. If you're a designer, avoid talking specifically about design. Sure, that may be all you're thinking about, but semantic markup, fluid and fixed layouts, and color schemes will likely mean very little to the client. Worse still, these types of conversations can bring misguided design opinions your way even before you get a chance to start thinking about the design yourself.

Implementation

The next step in the design process is to take what you've learned from the client and use it to create a design. Regardless of the project, try not to get caught up in the technology associated with building web sites—at least not at first. At this point, it shouldn't matter whether the site is going to comprise straight HTML, a template for a content management system, or a Ruby on Rails application; the bottom line is that we have an interface to

TIP *Client Meetings don't have to Take Place in an Office*



Even when I worked for a company with a big office, I had some of my most productive client meetings at a coffeehouse or over lunch. The feasibility of this approach depends on the client. If your contact doesn't seem like the informal meeting type, don't suggest it; in many cases, though, it's a good way to make a business meeting more personal.

¹ This question is especially important if this person is going to be your main point of contact.

design and a blank sheet of paper. “Paper?” That’s right, paper. Did you really think I was going to let you get back to your precious computer right after the client meeting was over? No way. Here’s why: it’s easy to lose focus on the design if you start thinking about the layout in front of a computer. If you start out on paper, you can ignore the technical limitations of browsers and CSS, and focus on how you want the final product to look. Now you might think that all good designers carry around fancy hardbound sketch books in which they use expensive markers and paint to design masterpiece renderings of web page layouts. For me, the equivalent is a 79¢ spiral-bound notebook and any writing instrument I can find on my desk that still works.

I start out by sketching a few possible layouts. After a few of these sketches, I decide on one I like, jump into Photoshop, and use the rectangle tool to block out the areas I’ve marked down on my paper. Once I’ve defined my layout, I experiment with foreground and background colors until I have a solid color scheme. I continue twiddling the Photoshop knobs and pushing around pixels until, finally, I have a comp to show the client.

Simple, right? Okay, perhaps I skipped a few steps in that brief description. Honestly, though, when people ask me how I do what I do, they usually get a similar explanation. The truth is that there are bundles of now-subconscious information from my past experience and those old college design and art classes that have helped me to define my own design process.

Learning how to design is like learning how to program. Some people have a bit of a knack for it, but anyone can learn. Just as there is good code and ugly code, there is good design and ugly design. Learning some of the principles and conventions that are associated with design will help you to understand the difference between the good and the ugly, and help you toward establishing your own design process.

Defining Good Design

There are two main standpoints from which most people determine whether a web site design is “good” or “bad.” There’s a strict usability standpoint, which focuses on functionality, the effective presentation of information, and efficiency. Then there’s the purely aesthetic perspective, which is all about presentation, hot animations, and sexy graphics. Some designers get caught up in the aesthetics and graphics and forget about the user, and some usability gurus get lost in their user testing and forget about visual appeal. In order to reach people *and* retain their interest, it’s essential to maximize both.

The most important thing to keep in mind is that design is about communication. If you create a web site that works and presents information well, but looks ugly or doesn’t fit with the client’s brand, no one will want to use it. Similarly, if you make a beautiful web site

that isn't usable and accessible, people may not be able to use it. Indeed, the elements and functionality of a finished web site design should work as a single cohesive unit, so that:

■ **Users are pleased by the design but drawn to the content**

One of the biggest concerns among usability professionals is the time it takes users to scan the page for the information they want, be it a piece of content, a link to another page, or a form field. The design should not be a hindrance; it should act as a conduit between the user and the information.

John Oxton's Bus Full of Hippies template² (pictured in Figure 1.2) is a great example of a design that's both beautiful and usable. The colorful graphics grow around the blocks of content, leading the eye back to the information without interfering with the pages' readability or organization.

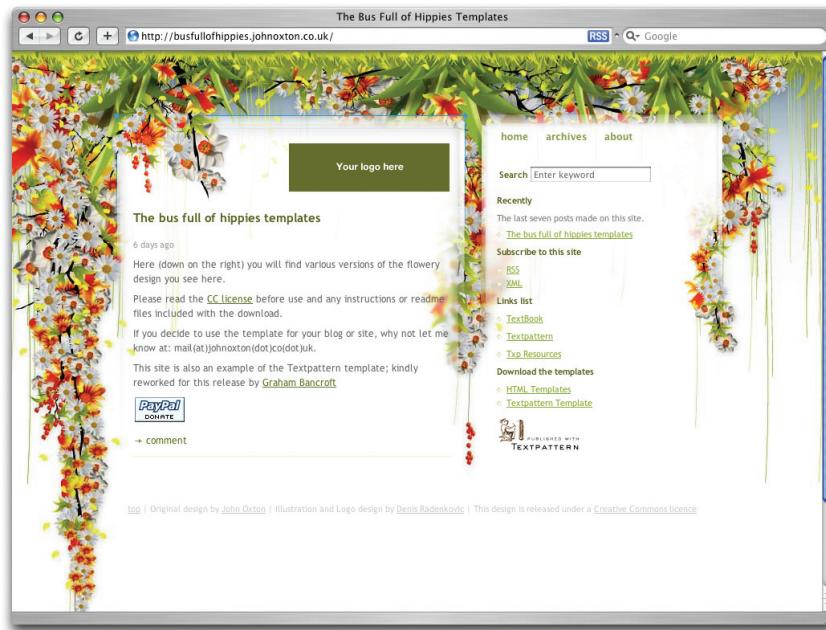


Figure 1.2: The Bus Full of Hippies template

■ **Users can move about easily via intuitive navigation**

We'll talk more about the placement of navigation later, but the main navigation block itself should be clearly visible on the page, and each link should have a descriptive title. A navigation structure that not only changes appearance on mouse hover, but also indicates the active page or section, as does the menu shown in Figure 1.3, helps users recognize where they are, and how to get where they want to go.

² <http://busfullofhippies.johnoxton.co.uk/>



Figure 1.3: A navigation menu from Iconfactory's Halloween 2006 theme³

Secondary navigation, search fields, and outgoing links should not be dominant features of the page. If we make these items easy to find, and separate them visually from the content, we allow users to focus on the information, though they'll know where to look when they're ready to move on to other content.

■ Users recognize each page as belonging to the site

Even if there's a dramatic difference between the layout of the homepage and the rest of the site, a cohesive theme or style should exist across all the pages of a site to help hold the design together.

Take a look at the screenshots of Steve Smith's Ordered List in Figure 1.4.⁴ Although the content blocks on these pages are divided differently, there are several visual indicators that let users know that these are pages from the same site. Much of this unity is due to the repetition of the identity and navigation blocks. The consistent use of a very limited color palette (black, white, green, and cyan) also helps to unify the pages.

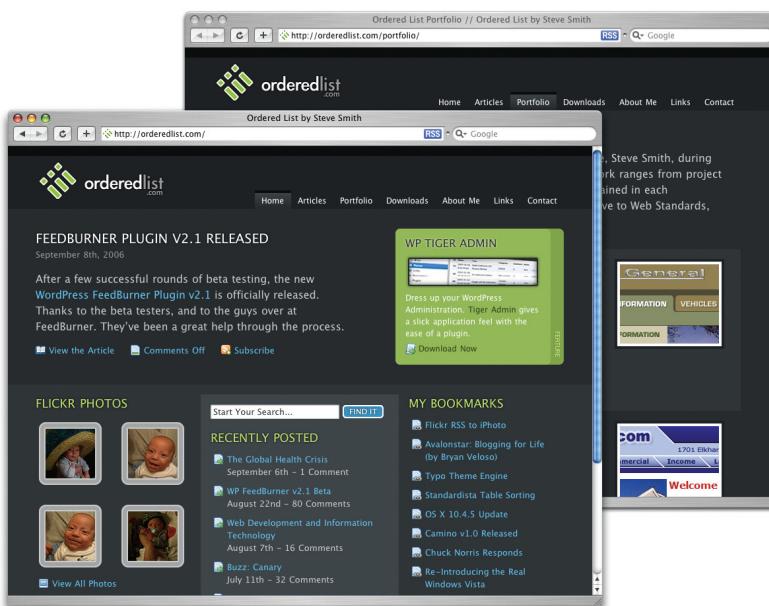


Figure 1.4: Pages from Ordered List

3 <http://iconfactory.com/>
4 <http://orderedlist.com/>

Web Page Anatomy

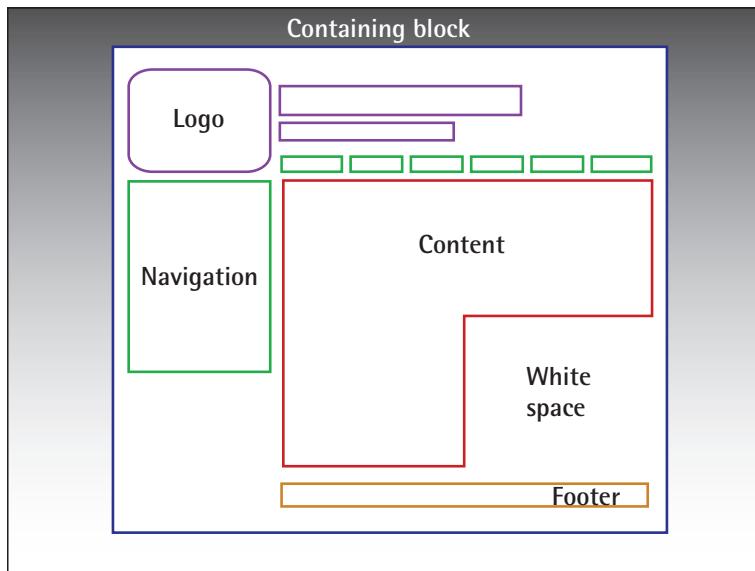


Figure 1.5: The anatomy of a web page

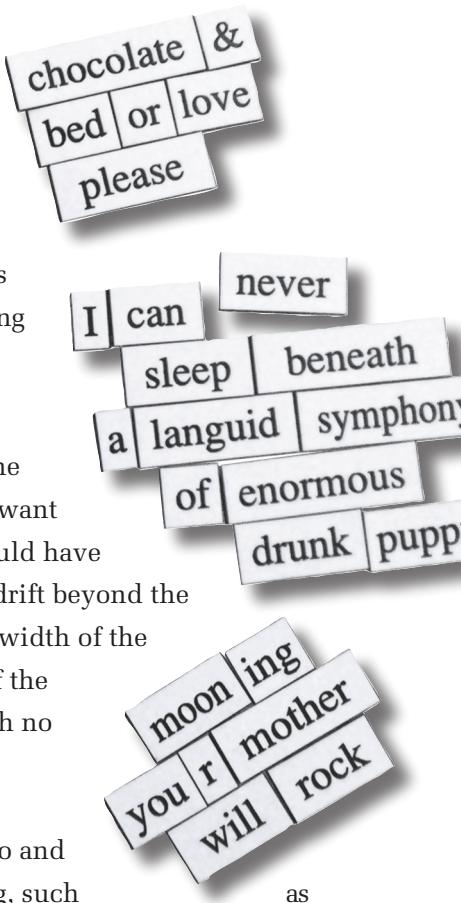
Even from a non-designer's standpoint, defining a design that satisfies all of the requirements I outlined above is a simple task. It's similar to making a phrase on your refrigerator with magnetic poetry words. Although there are millions of ways to arrange the words, only a few arrangements make any sense. The magnetic poetry words are like the components, or blocks, of the web page. Although the number of these necessary blocks depends on the size and subject of the site, most web sites have the following components, as shown in Figure 1.5.

■ Containing Block

Every web page has a container. This could be in the form of the page's **body** tag, an all-containing **div** tag, or (and I really don't want to say this, but) a **table**. Without some sort of container, we would have no place to put the contents of our page. The elements would drift beyond the bounds of our browser window and off into empty space. The width of the container can be **liquid**, meaning it expands to fill the width of the browser window; or **fixed**, so that the content is the same width no matter what size the window is.

■ Logo

When designers refer to an identity, they're referring to the logo and colors that exist across a company's various forms of marketing, such



business cards, letterhead, brochures, and so on.⁵

The identity block that appears on the web site should contain the company's logo or name, and sit at the top of each page of the web site. The identity block increases brand recognition and lets users know that the pages they're viewing are part of a single site.

■ Navigation

It's essential that the site's navigation system is easy to find and use. Users expect to see navigation right at the top of the page. Whether you plan to use vertical menus down the side of the page, or a horizontal menu along the page's top, the navigation should be as close to the top of the layout as possible. At the very least, all main navigation items should appear "above the fold."

NOTE *Above the Fold*

The **fold**, as some usability experts call it, is the end of the content users can see on a page before they scroll down. This metaphor is derived from the concept of a fold in a newspaper. If you look at the cover of a folded newspaper, most of the headlines and important news will appear on the top half, so that you can see the most important news items at a glance when the newspaper is folded. The location of the fold on a web page depends on the browser dimensions and the user's screen resolution. At a resolution of 800 × 600 pixels, accounting for browser chrome, the address bar, and a bottom status bar, the fold is usually just over 400 pixels from the top.

■ Content

Content is king. A typical web site visitor will enter and leave a web site in a matter of seconds. If visitors can't find what they're looking for, they will undoubtedly close the browser or move on to another site. It's important to keep the main content block as the focal point of a design so that precious seconds aren't wasted as visitors scan the page for the information they need.

■ Footer

Located at the bottom of the page, the footer usually contains copyright, contact, and legal information, as well as a few links to the main sections of the site.

By separating the end content from the bottom of the browser window, the footer should indicate to users that they're at the bottom of the page.

■ Whitespace

The graphic design term **whitespace** (or **negative space**) literally refers to any area of a page that's not covered by type or illustrations. While many novice web designers (and most clients) feel a need to fill every inch of a web page with photos, text, tables, and data, having empty space on a page is every bit as important as having content. Without carefully planned whitespace, a design will feel closed in, like a crowded room. Whitespace helps a design to "breathe" by guiding the user's eye around a page, but also helps to create balance and unity—two important concepts that we'll discuss in more detail later in this chapter.

⁵ Many people use the words identity and branding interchangeably. Branding is a broad term that describes the process of developing an awareness of a company, product, or service. The branding process involves advertising, market research, customer feedback, and much more. Identity is actually a subset of branding in that it deals only with the visual aspects of branding.

At this point, we've had our initial meeting with Mr. Smith, our theoretical client, and it was very helpful. He explained very thoroughly what he does and what he wants the site to achieve. Even though we don't have actual content yet, we can use the standard blocks of web page anatomy to start developing a layout. Although other site-specific blocks are worked into the designs of many web site layouts, the web page anatomy works to summarize the most common blocks.

Now that we have this information, how can we use it to create a foundational layout for Smith's Services? It's time for some grid theory.

Grid Theory

When most people think about grids, they think about engineering and architecture. However, the grid is an essential tool for graphic design as well.

Using a grid is not just about making things be square and line up: it's about proportion as well. That's where the "theory" comes into grid theory. Many art historians credit Dutch painter Piet Mondrian as the father of graphic design for his sophisticated use of grids. Yet classical grid theory has influenced successful artistic efforts for thousands of years. The concept of dividing the elements of a composition extends back to the mathematical ideas established by Pythagoras and his followers, who defined numbers as ratios rather than single units.

The Pythagoreans observed a mathematical pattern that occurred so often in nature that they believed it to be divinely inspired. They referred to this pattern as the **golden ratio** or **divine proportion**. The basic idea is illustrated in Figure 1.6. A line can be bisected using the golden ratio by dividing its length by 1.62. This magical 1.62 number is really 1.6180339 ... It's an irrational number that's usually represented as Φ (pronounced phi). Explaining the math used to come up with this number is a bit too involved for this discussion, and isn't really going to help you become a better designer, so I'll spare you the details. Besides, my math is a little rusty.

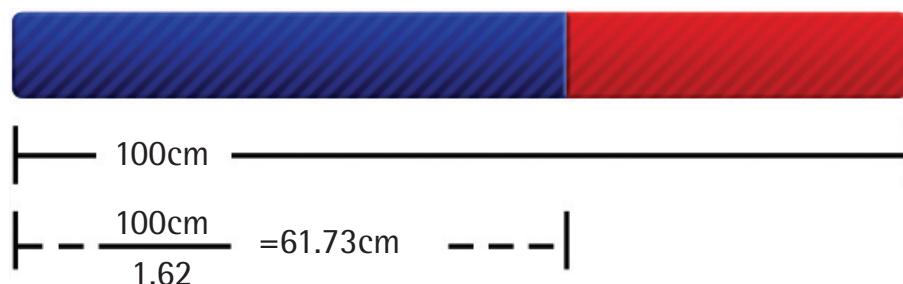


Figure 1.6: The golden ratio



This sunflower is an example of golden ratio in nature. The diameter of the center of the sunflower is the total diameter of the sunflower, including the petals, divided by Φ .

design professors, “rule of turds.” A line bisected by the golden ratio is divided into two sections, one of which is approximately twice the size of the other.

Dividing a composition into thirds is an easy way to apply divine proportion without getting out your calculator.

To start the pencil-and-paper version of your layout, draw a rectangle. The vertical and horizontal dimensions don’t really matter, but try to keep straight lines and 90-degree angles.

Now, divide your rectangle horizontally and vertically by thirds. As I said before, don’t start thinking about technology yet.

Next, divide the top third of your layout into thirds again.

Finally, divide each of your columns in half to create a little more of a grid.

You should have a square on your paper that looks similar to the rule of thirds grid in the final diagram of Figure 1.7. Go ahead and repeat the above steps so that you have a few rule of thirds grids in which to try different layout options.

With this simple gridwork in place, we can begin to lay out our elements. The large, main rectangle represents the container that we talked about in the section called “Web Page Anatomy.” When using this method of layout design, I like to place the biggest block first. Usually, that block represents the content. In my first rule-of-thirds

So just what does this ratio have to do with graphic design? In general, compositions divided by lines that are proportionate to the golden ratio are considered to be aesthetically pleasing. The artists of the Renaissance used divine proportion to design their paintings, sculpture, and architecture, just as designers today often employ this ratio when creating page layouts, posters, and brochures. Rather than relying on artistic notion, divine proportion gives us logical guidelines for producing appealing layouts.

The Rule of Thirds

A simplified version of the golden ratio is the **rule of thirds**, or in the native accent of one of my graphic

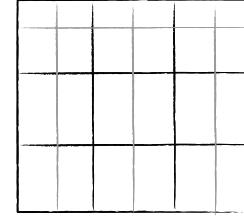
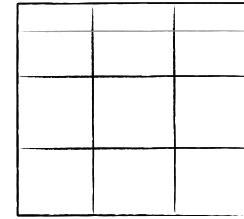
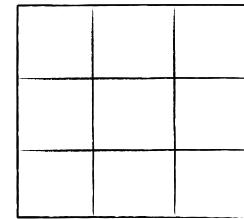
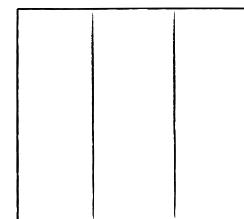


Figure 1.7: A grid created using the rule of thirds

grid, I place the content block within the two-thirds of the layout at the lower right. Next, I place my navigation block in the middle third of the left-hand column. I place the text part of the identity block over the left side of the content, and the image part of the identity over the menu. Finally, I squash the copyright block below the content, in the right-hand column of the grid. The result is the top-left of the four possible layout arrangements shown in Figure 1.8.

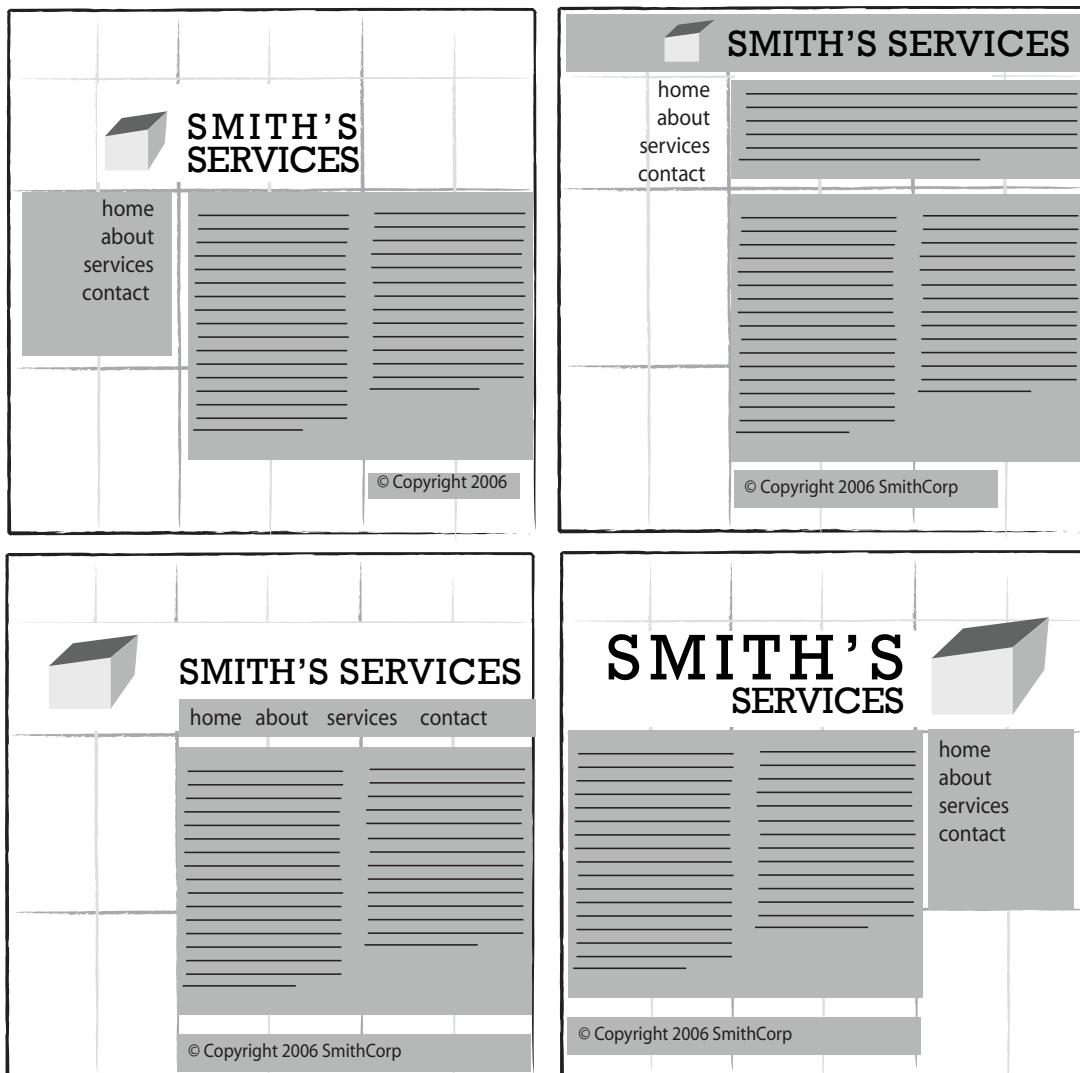


Figure 1.8: Four layouts in grids that follow the rule of thirds

As you experiment with different arrangements, use the lines that create the three main columns as alignment guides for the identity, navigation, content, and footer blocks. It's very tempting to arrange all your elements along one particular line, but try not to let this

happen—it's not very interesting visually. Instead, consider pushing part of the block over that line, as I did with the identity block in the examples in Figure 1.8.

Another tendency for non-designers working on layouts is to center-align everything on a page. The grid system prevents us from doing that, but there is a reason why we tend to want to center everything. That reason is a desire for **balance**.

Balance

In a figurative sense, the concept of visual balance is similar to that of physical balance illustrated by a seesaw. Just as physical objects have weight, so do the elements of a layout. If the elements on either side of a layout are of equal weight, they balance one another. There are two main forms of visual balance: symmetrical and asymmetrical.

Symmetrical Balance

Symmetrical balance, or formal balance, occurs when the elements of a composition are the same on either side of an axis line. The digital painting *Contemplation* by David Lanham, shown in Figure 1.9, is a great example of this concept. Notice how the male and female figures in this painting are almost the same in position and proportion. Even the shaded background boxes are mirror images of one another.

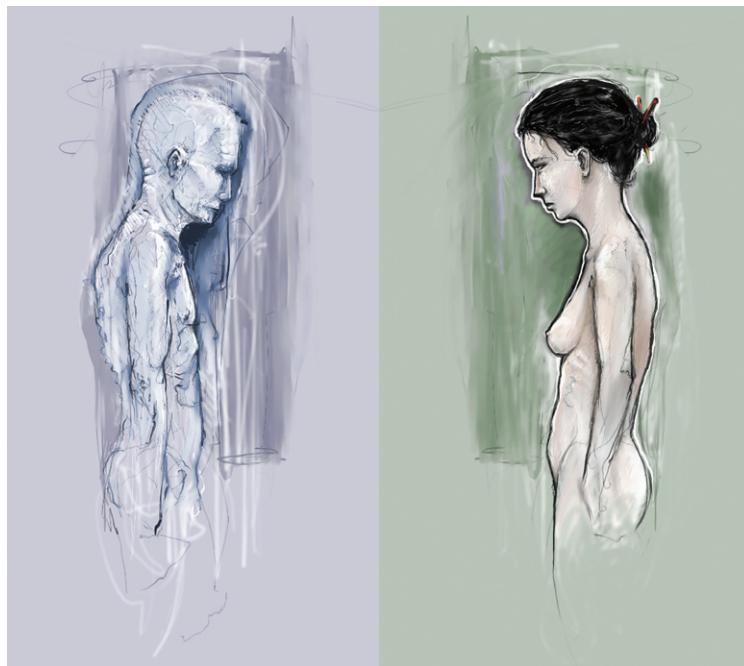


Figure 1.9: Symmetrical balance—*Contemplation* by David Lanham⁶

⁶ <http://dlanham.com/>

Although it may not be practical for all designs and clients, this type of symmetry—called **horizontal symmetry**—can be applied to web site layouts by centering content or balancing it between columns. The Grow Collective web site is an example of such symmetry.⁷ Notice on the page shown in Figure 1.10 that the content areas graduate from a single column at the very top of the page, to two columns, to three columns at the bottom of the window; yet the layout still maintains its symmetrical balance. Most of the rest of the site's content is divided into symmetrical columns as well.



Figure 1.10: Grow Collective web page

The two other forms of symmetrical balance are less common in web site design, due to the nature of the medium. However, they're commonly exhibited in logo and print design. These are:

- **bilateral symmetry**, which exists when a composition is balanced on more than one axis
- **radial symmetry**, which occurs when elements are equally spaced around a central point

⁷ <http://gr0w.com/>

Asymmetrical Balance

Asymmetrical balance, or informal balance, is a little more abstract, and generally more visually interesting, than symmetrical balance. Rather than having mirror images on either side of the layout, asymmetrical balance involves objects of differing size, shape, tone, or placement. These objects are arranged so that, despite their differences, they equalize the weight of the page. If you have a large object on one side of a page, and you partner it with several smaller items on the other side, the composition can still feel balanced.



Figure 1.11: Asymmetrically balanced design by Jeremy Darty



Figure 1.12: Asymmetrical rocks that don't roll

that creates a good contrast for the text and the main content. The diminutive navigational column is often darker, has some sort of border, or is made to stand out in some other way, in order to create balance within the layout. John Hicks's site, [Hicksdesign](http://Hicksdesign.com), which is shown

The concert poster by my friend Jeremy Darty presented in Figure 1.11 is a fine example of asymmetrical balance. The visual weight of the large pink flamingo on the left is balanced by the combined weight of the smaller flamingos and small text blocks on the right-hand side of the layout. Notice also Jeremy's use of the rule of thirds. The blue cloud behind the Pop Sucks title takes up one-third of the vertical space and spans two-thirds of the horizontal.

Take a look at the photo of the three stones in Figure 1.12. It may not be a particularly exciting picture, but as far as balance goes, it rocks! If you were to use a piece of paper to cover any one of the three stones below, the entire photograph would feel unbalanced and unfinished. This is generally the way balance works. It's as if the entire composition is in a picture frame hanging by a single nail on the wall. It doesn't take much weight on one side or the other to shift the entire picture off balance.

Unlike symmetrical balance, asymmetrical balance is very versatile, and as such, it's used much more often on the web. If you take a look at most two-column web site layouts, you'll notice that the larger column is often very light in color—a tactic

in Figure 1.13, is an excellent example of asymmetrical balance.⁸ The heavy brown sidebar, which contains the logo and main navigation for the site, stays fixed on the right-hand side of the layout even when the content scrolls. This ever-present element provides interest and balance to the rest of the content on the page.

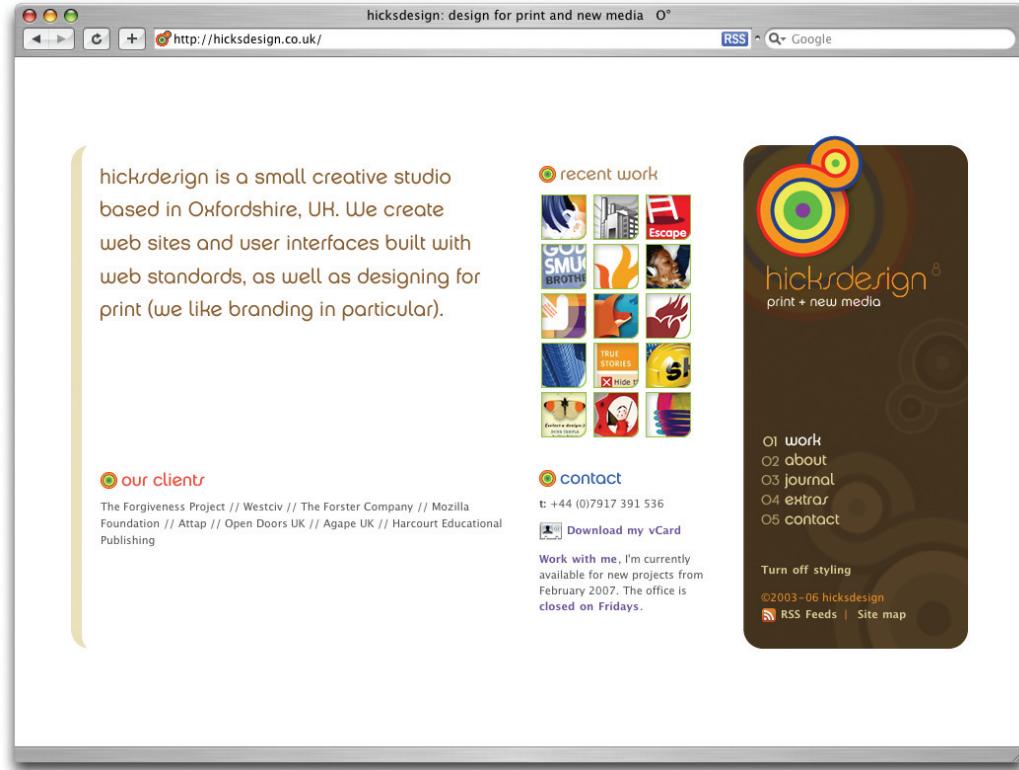


Figure 1.13: Hicksdesign—an example of asymmetrical balance

Many principles are at work in the design of John Hicks's site—this design isn't just about asymmetrical balance. The site has great harmony, which comes from the repeated, brightly colored bullets, similarly colored headers, and consistent typefaces. Part of that harmony arises from the fact that the site meets the principles of unity.

⁸ <http://www.hicksdesign.co.uk>

Unity

Design theory describes **unity** as referring to the way in which the different elements of a composition interact with one another. A unified layout is one that works as a whole rather than being identified as separate pieces. Take the monkeys in Figure 1.14, for example.

Their similar colors and shapes mean that they can easily be recognized as forming a group, rather than merely being four monkeys.



Figure 1.14: Unity among the monkeys

Although it's not such an issue these days, unity is one of the many reasons why web designers have always despised HTML frames. It's important that unity exists not only within each element of a web page, but across the entire web page—the page itself must work as a unit. We can use a couple of approaches to achieve unity in a layout (aside from avoiding frames): proximity and repetition.

Proximity

Proximity is an obvious, but often overlooked way to make a group of objects feel like a single unit. Placing objects close together within a layout creates a focal point toward which the eye will gravitate. Take a look at the digital painting in Figure 1.15. While composed of a seemingly random assortment of strokes, the five strokes that are the closest together appear to form a unified object.

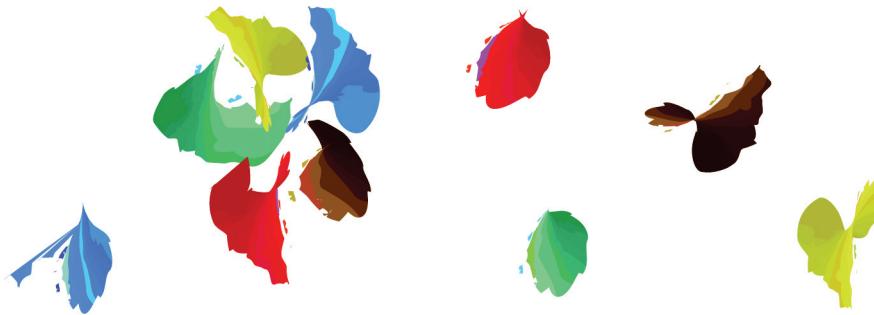


Figure 1.15: Creating a group using proximity

We practice the concept of proximity on the Web when we start setting margins and padding for elements. For instance, when I define the CSS style rules for most sites, I usually change the default margin that exists between common HTML elements such as headings (**h1**, **h2**, **h3** ...), paragraphs, blockquotes, and even images. By altering these values, I can cause more or less space to appear between elements, thereby creating groups.

If you look at the two columns of text in Figure 1.16, you'll notice that they look very similar. The only difference is in the placement of the headings. In the column on the left, the word "Unkgnome" is equi-distant from the top and bottom paragraphs. This results in a heading that looks more like a separator than a heading for the next paragraph. In the second column, the "Gnomenclosure" heading is placed closer to the paragraph that follows it. In accordance with the rules of proximity, this heading appears to belong to that block of text.

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Figure 1.16: Proximity between headers and content

Repetition

A gaggle of geese, a school of fish, a pride of lions. Any time you bring a set of like items together, they form a group. In the same way, repetition of colors, shapes, textures, or similar objects helps to tie a web page design together so that it feels like a cohesive unit. The example in Figure 1.17 illustrates repetition. Even though there are other similar strokes around, the nine red strokes on the left-hand side appear to be a unified group because they repeat a shape, color, and texture. The strokes to the right of this group have no repeated pattern, so they appear isolated even though there are other shapes nearby.

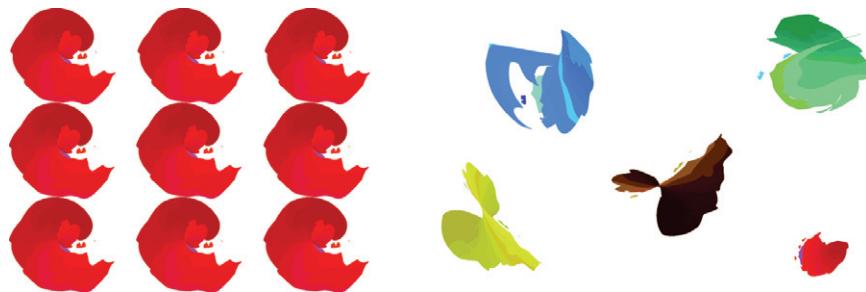


Figure 1.17: Creating a group using repetition

Whether you notice it or not, repetition is often used in web site designs to unify elements of the layout. A good example of this concept at work among unmodified HTML elements is the bulleted list. The bullet that precedes each list item is a visual indicator that the bullet items are parts of a whole. Repeated patterns and textures can also help to unify a design. Take a look at the screenshot of Left Justified, the personal site of Australian designer Andrew Krespanis.⁹ This layout contains many eye-catching elements, but the repeated use of the red wood texture in the header, menu, and page borders literally hold this design together.

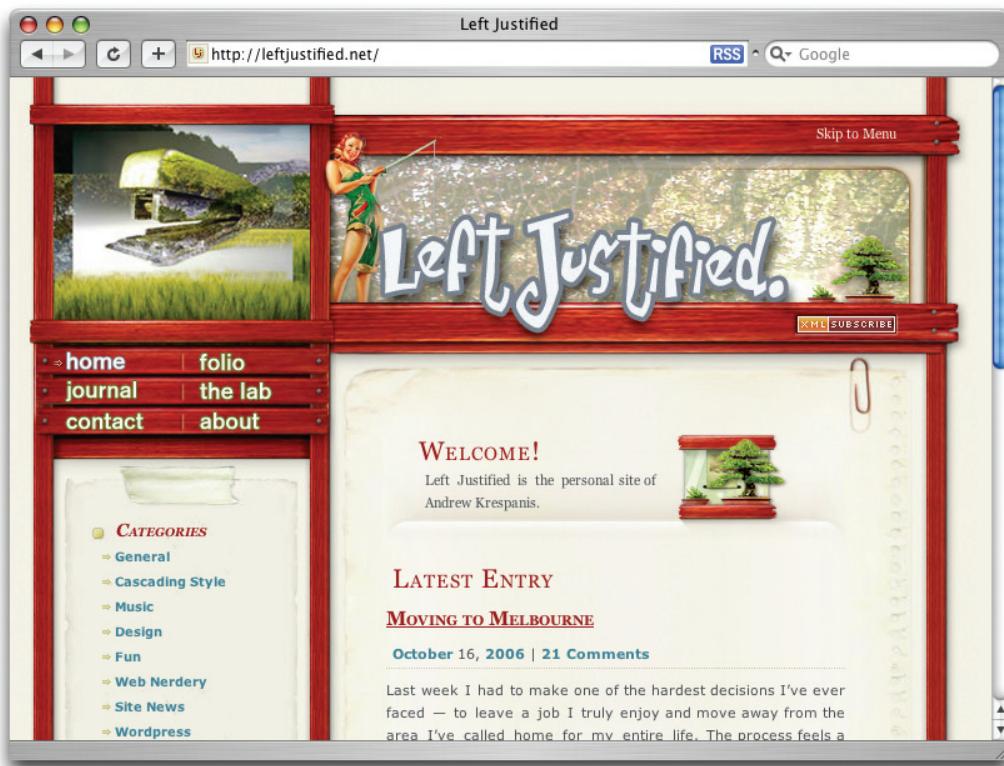


Figure 1.18: Left Justified homepage

Emphasis

Closely related to the idea of unity is the concept of emphasis or dominance. Rather than focusing on getting the various elements of a design to fit together, emphasis is about making a particular element draw the viewer's attention. When you design a web page layout, often you'll identify an item in the content, or the layout itself, that you want to stand out. Perhaps it's a button you want users to press, or an error message that you want

⁹ <http://leftjustified.net/>

them to read. One method of achieving such emphasis is by making that element into a focal point. A **focal point** is anything on a page that draws the viewer's eye, rather than just feeling like part of the page as a whole or blending in with its surroundings. As with unity, there are a few tried and true methods of achieving a focal point.

Placement

Although the constraints of practical web design do not often allow for it, the direct center of a composition is the point at which users look first, and is always the strongest location for producing emphasis. The further from the center an element is, the less likely it is to be noticed first; for an example of this, see Figure 1.19.

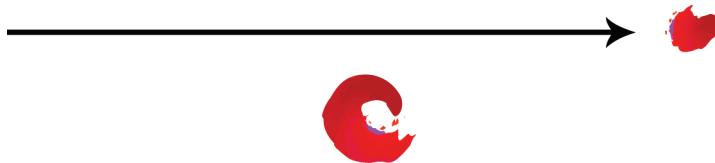


Figure 1.19: Continuance and placement—creating emphasis

Continuance

The idea behind **continuance** is that when our eyes start moving in one direction, they tend to continue along that path until a more dominant feature comes along. Figure 1.19 demonstrates this effect. Even though the bottom splotch is bigger and tends to catch your eye first, your brain can't help but go "Hey, looky there, an arrow!" You'll soon find yourself staring at the smaller object.

Continuance is also one of the most common methods that web designers use to unify a layout. By default, the left edge of headings, copy, and images placed on a web page form a vertical line down the left side of a page before any styling is applied. A simple way to expand on this concept is to use the rule of thirds to line up other page elements along the lines of your grid.

Isolation

In the same way that proximity helps us create unity in a design, isolation promotes emphasis. An item that stands out from its surroundings will tend to demand attention. Even though he's sad to not be with his buddies on the other page, the isolated monkey in Figure 1.20 stands out as a focal point on the page.



Figure 1.20: Isolation—
a sad monkey

Contrast

Contrast is defined as the juxtaposition of dissimilar graphic elements, and is the most common method used to create emphasis in a layout. The concept is simple: the greater the difference between a graphic element and its surroundings, the more that element will stand out. Contrast can be created using differences in color (which I'll discuss in more detail in Chapter 2), size, and shape. Take a look at Figure 1.21.

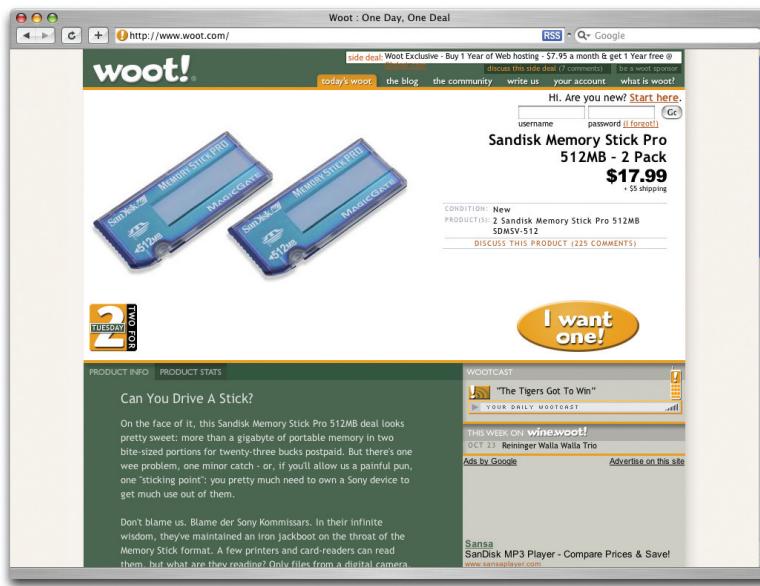


Figure 1.21: Woot—using orange for contrast

The site is Woot, an ecommerce web site that sells just one item per day.¹⁰ When you look at this layout, what's the first thing that grabs your attention? My guess is it's probably the product they're selling. Products at Woot change daily, though, so what grabs your eye after that? For me, it's the **I want one!** button. Although the same colors are used elsewhere in the design, the oval shape isn't. When set against an area of white space, the button has both contrast and isolation working to emphasize it. The owners of Woot *really* want you to click that button.

Proportion

One interesting way of creating emphasis in a composition is through the use of proportion. **Proportion** is a principle of design that has to do with differences in the scale of objects. If we place an object in an environment that's of larger or smaller scale than the object itself, that object will appear larger or smaller than it does in real life. This difference in proportion draws viewers' attention to the object, as it seems out of place in that context.

¹⁰ <http://www.woot.com/>

In Figure 1.22, I've taken my monkey and superimposed him over the skyline of Manhattan to prove my point. Between the sharp contrast in color, and the difference in proportion, your brain immediately says, "Hey, something's not right here," and you're left staring at the monkey until you force yourself to look away.



Figure 1.22: Proportion—a monkey in Manhattan

This principle works for miniaturization as well. If you take a look at my personal web site, Jasongraphix, pictured in Figure 1.23, one of the first things you might notice on the page is the mini-me leaning against my artwork just under the logo.¹¹ As with the **I want one!** button on Woot, this little guy stands out because of contrast and isolation, but also because of the eye-catching use of proportion.

A screenshot of a web browser displaying the homepage of Jasongraphix. The page has a warm, wooden-paneled background. At the top, there's a navigation bar with links for Home, Archive, Folio, Artwork, About, and Résumé. Below the navigation is a section titled "Step 'n Side" with a date of October 17, 2006. This section contains a text post about a podcast episode and a small image of a person standing next to a tall, thin object. To the right of this is a sidebar with a logo for "jasongraphix" and a sub-headline "Making this place feel like home." It includes a "Select Style" dropdown, a "Featured Work" section showing a thumbnail of a design, a search bar, and a "friends" section listing names like Amesnas, Birdman, Bojan Janjanin, Brian Reese, Christina, David Lanharn, Dustin Diaz, Elliot Swan, Jeremy Darty, Justin Perkins, Marko Dugonjić, and Ray Williams. At the bottom of the page, a message says "Cancelled opening the page". The URL http://jasongraphix.com/ is visible in the browser's address bar.

Figure 1.23: Jasongraphix—my personal site, featuring mini-me!

¹¹ <http://www.jasongraphix.com/>

A few standard HTML tags and CSS properties have been designed to take advantage of the preceding theories to create emphasis in a web page even without customization. For isolation of content consider the **blockquote** element. This element indents the left- and right-hand side of any text placed within it, purposely breaking the continuation lines of the page content and drawing attention to itself. For positioning, consider the position property in CSS. By absolutely positioning an object with CSS, you take it out of the flow of its containing block, so you can place it strategically to draw attention. And when you think about contrast, think about the **blink** tag. Just kidding! Don't ever think about the **blink** tag. Yes, it creates contrast ... over and over and over again. Please don't use it. Don't get any ideas about using a **marquee** tag either. Design is just as much about what we leave out as it is about what we put in.

Next, we'll look at some well-tested examples of designs from which you can work.

Bread-and-butter Layouts

Most of what we've talked about thus far has been design theory. Theory's good, but it can only take us so far toward understanding why some ideas work—and others don't—in a web site's design. In my opinion, examples and practice are much more valuable. Most academic graphic design programs include a curriculum that's rich in art history and fine art. These classes provide a great foundation for an understanding of graphic design from an art perspective, but they do little to prepare you for the specific challenges you encounter when you take your designs to the Web.

Pablo Picasso once said, "I am always doing that which I can not do, in order that I may learn how to do it." While I like to take that approach when designing a new web site, it's important first to know what you *can* do. When you look out across the Internet, you can see that the possibilities for layout really are endless. But, as I said before, only a few of those possibilities make good design sense. That's why we see certain configurations of identity, navigation, and content over and over again.

In this section, we'll talk about a few of the most common layouts, and explore some of their advantages and disadvantages.

Left-column Navigation

Regardless of whether we're talking about liquid or fixed-width layout design, the left-column navigation format is the de facto standard. The ThinkGeek site, pictured in Figure 1.24, is a classic example of this configuration.¹² Many sites that fit into this mold don't

¹² <http://www.thinkgeek.com/>

necessarily use the left column as the main navigation block—sometimes you'll see the navigation along the top of the page—but they still divide the layout below the header into a narrow (one-third or less) left column and a wide right column. It's a status quo, like a security blanket, or that comfortable shirt with holes in the armpits that you wear once a week even though it drives your spouse crazy. For those reasons, a layout featuring left-column navigation is a safe choice for any project.

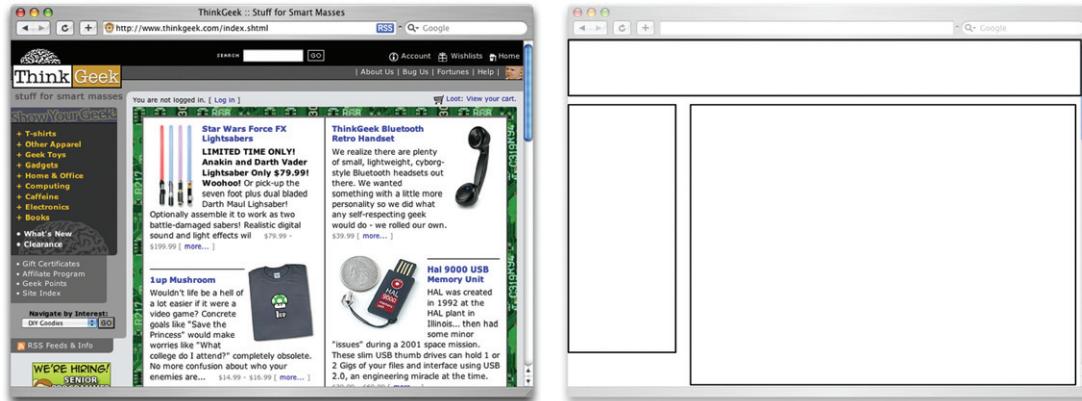


Figure 1.24: Left-column navigation at ThinkGeek

The downside to sites that use left-column navigation is that they can lack creativity. They've been done so many times, and in so many ways, that they tend to look the same. That's not to say you shouldn't use a left-column navigation layout. I'd guess that 75% of the sites I've designed have been based on the left-column navigation model, but I try to do something different when I can.

Speaking of different, how about picking that left column up and sticking it on the other side of the content? Then you'd have a right-column navigation layout.

Right-column Navigation

Although it's difficult to find sites like Audi's (depicted in Figure 1.25) that place the main site navigation along the right-hand side of the layout, it's quite easy to find sites that use a right-hand column for sub-navigation, advertising, or sub-content.¹³ Since, in western cultures, our eyes scan from left to right, this allows the page's main content to be the first thing viewers see.

¹³ <http://www.audi.com>

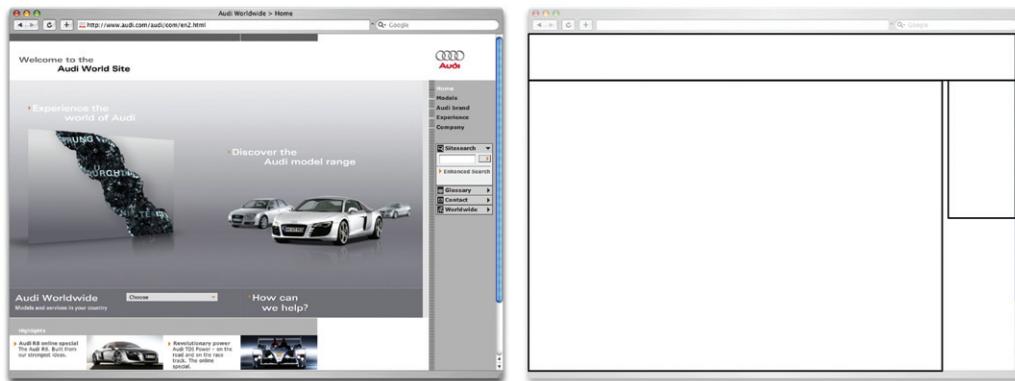


Figure 1.25: Right-column navigation on Audi's web site

I'm not sure why there aren't more sites that make use of the right column. The studies I've seen tend to swing both ways in regards to the usability and practicality of right-hand menus. In my own experience, my cursor tends to hover on the right side of the browser window anyway—so I can be closer to the scrollbar.

Ultimately, this is a judgement call that's really about the needs of your clients and how they want people to perceive their online presence. Left-column navigation is familiar and more standard, but that's not always the number one priority in designing a new site. One thing's for sure, though: if you want your design to be different from the average web site, but you still want users to be able to find your navigation, you should give a right-column layout a try.

Three-column Navigation

The typical three-column layout has a wide center column flanked by two diminutive navigational columns. The Apple Store web site shown in Figure 1.26 is an example of this common web page layout staple.¹⁴ Although three columns may be necessary on pages that have a ton of navigation, short bits of content, or advertising to display, it's important to remember that whitespace is essential if we are to keep a layout from appearing cluttered. Fortunately at the Apple Store, the three columns only exist on the homepage, and the center column has some whitespace that helps to promote eye movement.

¹⁴ <http://store.apple.com/>

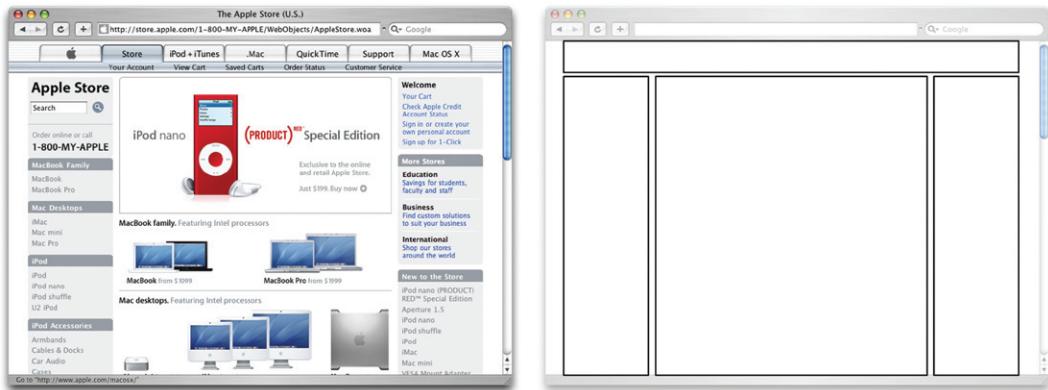


Figure 1.26: Three-column navigation at Apple Store

Getting Inspired

Just because the left-, right-, and three-column layout configurations are the bread and butter of most web page designs doesn't mean you have to be confined to these layouts. A plethora—yes, a plethora—of design showcase and gallery sites have been created to feature new and innovative ideas that might help you think outside the box, including the following (just to name a few):

■ **CSS Zen Garden at <http://www.csszengarden.com/>**

This site is the original showcase of fresh ideas for CSS. Even if you don't intend to design a CSS Zen Garden template, it's a great source of inspiration.

■ **CSS Beauty at <http://www.cssbeauty.com/>**

CSS Beauty is both a gallery of well-designed CSS web sites and a portal to the CSS design community.

■ **Stylegala Gallery at <http://www.stylegala.com/archive/>**

Stylegala is a great source of information about web design and standards, but the gallery features only the best-of-the-best new CSS designs.

■ **CSS Vault at <http://cssvault.com/>**

The CSS Vault's gallery archive goes back to November 2003, so it's not only a great source of inspiration, but a historical repository of great CSS design.

■ **Design Interact Site of the Week at <http://www.designinteract.com/sow/>**

Just for good measure, here's one gallery that doesn't concentrate on CSS-based designs. Design Interact is the multimedia- and technology-focused spin-off of Communication Arts, a leading trade journal for visual communication and graphic design. Design Interact has been highlighting (and archiving) a new and unique web site every week since January 1998.

Using a Morgue File

I know what you're thinking: "Great, I've got a bunch of galleries to look at, now what?" One of the most useful "tings" my first graphic design professor taught me was to create a **morgue file** whenever I worked on a large project. The concept is pretty simple: if you're doing an illustration or marketing project that involves trains, you clip out and print up anything you can find that might give you inspiration and keep it all in a folder. It helps with your current project, and should you ever need to do another project involving trains, you'll have lots of inspiration on hand.

NOTE *Don't have Photoshop Handy?*

If you're working on a computer that doesn't have graphics editing software, keep in mind that some other common programs like Microsoft Word allow you to paste image from the clipboard into documents as well.

The morgue file idea kind of slipped my mind until a few years ago when I was working on a web site layout. I found myself looking for a similar layout to the one I wanted to create—in particular, I wanted to see how other designers handled the background textures for such a

design. That was when I decided to start my

digital morgue file. I started taking screenshots of sites I saw in some of the gallerys listed above, and sorted them into folders with names such as leftnav, rightnav, 3column, and oddball. Having a repository of web site designs that I can look at any time has been a handy resource on countless occasions when I've been looking for inspiration.

TIP *Capture a Screenshot for your own Morgue File*

1. Select the browser window that's displaying the page of which you wish to save a screenshot.
2. Copy a screenshot of the browser window to your clipboard:
 - On a PC, press *Alt Print Screen*.
 - On a Mac, press *Shift Command 4*, then *Space* to turn the cursor into a camera. Then, hold down *Ctrl*, and click on the browser window.
3. At this point, you should have a screenshot of the browser window in your clipboard. Open a new document in your favorite graphics program and paste the screenshot.
4. Save your image or document.

Fresh Trends

If you're feeling so overwhelmed by the above resources that you can't even contemplate starting a morgue file for inspiration, just take a few minutes to browse through those sites. Look past the colors and textures to the boxes that make up the layout, and try to identify common ideas and design trends. By doing this, I've started to notice a few trends that seem to be emerging in web site layouts.

Expansive Footer Navigation

If you scroll to the bottoms of pages on many of the most recently redesigned sites, you're likely to see an interesting new trend. Rather than using the footer for main links and a copyright notice, many sites are expanding this neglected piece of page real estate to include contact information, expanded site navigation, and extra content such as blogrolls, linkrolls, Flickr badges, and so on. Although putting a site's main navigational element at the bottom of the page isn't a good idea, the concept of including "bonus" navigation and content in that space has taken off lately. As Figure 1.27 shows, JeffCroft.com is just one of the sites trying this approach.¹⁵

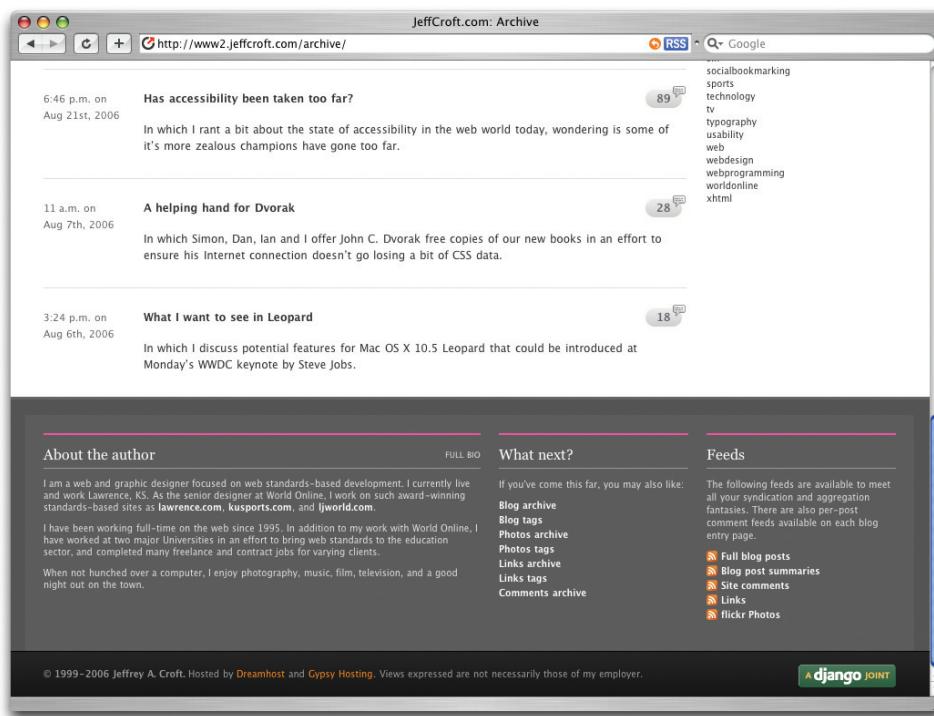


Figure 1.27: Presenting extra content in the footer at JeffCroft.com

See also:

- City Church, at <http://www.thecity.org/>
- Powazek, at <http://www.powazek.com/>
- Fresh Branding, at <http://www.freshbranding.co.uk/>

Three Columns with Content First

The majority of fresh three-column site designs that have been produced lately have put the content first. By first, I mean they're locating the content on the far left of the display.

¹⁵ <http://jeffcroft.com/>

As you can see in Figure 1.28, this approach produces a very modern and professional look for Vivabit.¹⁶

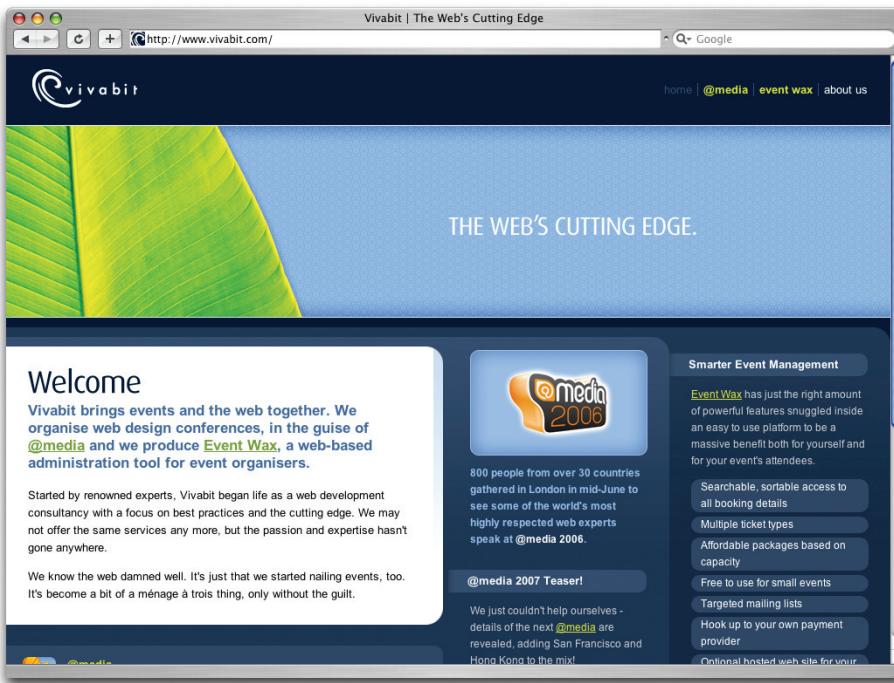


Figure 1.28: Putting content first at Vivabit.com

Although this isn't really a new idea, it's been picking up a lot of steam lately in both liquid- and fixed-width site designs. The majority of three-column layouts usually switch to a two-column structure outside the homepage. By placing the content on the left, the transition from three columns to two is more natural, as the content column can simply expand, rather than having to relocate completely. For example, if you visit any of the other main pages of the Vivabit site, the width of the content area seems simply to expand up and to the right when you navigate from the homepage into the site.

See also:

- Veerle's Blog, at <http://veerle.duoh.com/>
- Django, at <http://www.djangoproject.com/>

Resizing: Fixed Width vs. Liquid Width

Back when we were drawing layout blocks with pencil and paper, I explained that the first page element we had to think about was the containing block, and whether or not it would expand to fill the page. This decision is one that has plagued web designers for hundreds,

¹⁶ <http://www.vivabit.com/>

if not thousands of years—all the way back to the days when we used tables and *spacer.gif* files to layout web page content. Okay, maybe that wasn't actually *thousands* of years ago, but this is a long-standing debate nonetheless. In fact, the fixed-versus-liquid debate caused quite a bit of commotion back in December 2003 when two very influential designers, Douglas Bowman of Stopdesign¹⁷ and Dan Cedarholm of SimpleBits,¹⁸ simultaneously switched from liquid- to fixed-width layouts. This caused instant and unwarranted panic among the design and web standards community, whose members feared that this move marked the death of liquid layouts.

Since then, most designers have established their own opinions in regard to the fixed-versus-liquid debate. The decision to use one type of layout over the other should really be determined by the target audience and the accessibility goals of each individual web site. The pros and cons of each layout type are fairly well-defined, as Table 1.1 illustrates.

Table 1.1: Fixed- vs. liquid-width layouts—the pros and cons

	Pros	Cons
Fixed-width	<ul style="list-style-type: none"> ■ designer has more control over how an image floated within the content will look ■ allows for planned whitespace ■ narrower text blocks improve readability 	<ul style="list-style-type: none"> ■ can appear dwarfed in large browser windows ■ takes control away from the user
Liquid-width	<ul style="list-style-type: none"> ■ adapts to most screen resolutions and devices ■ reduces user scrolling 	<ul style="list-style-type: none"> ■ text spanning a wide distance is more difficult to read ■ more difficult to execute successfully ■ can cause a lack of, or awkward, whitespace

With these pros and cons in mind, I've designed more fixed-width layouts than liquid. I like having control over how the content will display, and working with the background space. On the flip side, I sometimes enjoy the challenges that liquid layouts bring to the table. But, regardless of personal preferences, it's important to put the needs of your client first. If you're deciding on the width of a fixed-width layout, you have to think about the audience for which you're designing, and create a layout that meets the needs of those users.

An Alternative: Variable Fixed-width Layout

The somewhat ironic term **variable fixed-width layout** was coined by Richard Rutter in an article that he wrote to catalog his findings about this new trend.¹⁹ It's an excellent discussion of the topic that provides some great examples.

¹⁷ <http://stopdesign.com/>

¹⁸ <http://simplebits.com/>

¹⁹ <http://clagnut.com/blog/1663/>

The homepage of Simon Collison's Colly Logic exhibits the best implementation I've seen of this new trend.²⁰ When you expand your browser window from 800 pixels to 1024 pixels in width, the right-hand column splits into a third column. Figure 1.29 shows how it works.

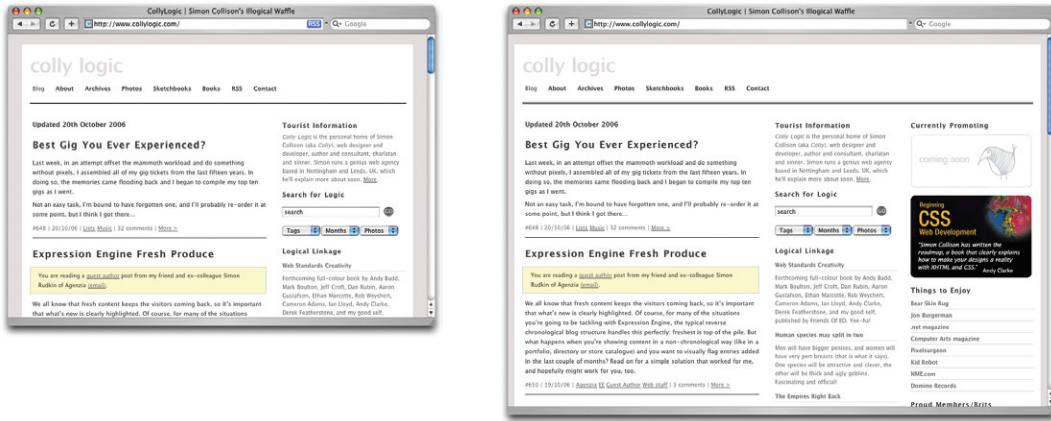


Figure 1.29: Viewing Colly Logic at 800 and 1024 pixel widths

Colly Logic acts as an intermediary between fixed- and liquid-width design. A handful of designers have been toying with this idea; CSS Beauty, one of the CSS gallery sites I mentioned earlier, takes a variable fixed-width approach to displaying features and advertising content.²¹

Screen Resolution

In comparison to the fixed-versus-liquid debate, the arguments about designing for particular screen resolutions are much more tame.

When designers say that a site is designed, or optimized, for a particular screen resolution, they're actually talking about the resolution of the viewer's monitor. The debate has centered around whether or not we should design sites in such a way that people using a monitor resolution of 800×600 pixels could see the entire width of the content area with their browsers in full-screen mode. Given that we must account for sidebars and browser borders, this approach would see us design a content area that's approximately (or that could be resized to approximately) 750 pixels wide.

NOTE Screen Resolution

According to W3Schools' screen resolution statistics, in July 2006, 17% of web users had their screens set to 800×600 pixels (down from 25% in July 2005), 58% had their resolutions set at 1024×768 pixels (up from 55%), and 19% had their screens set to a resolution higher than 1024×768 pixels (up from 14%). 6% of users had their monitors set to an unknown resolution.²² Figure 1.30 illustrates these trends.

20 <http://www.collylogic.com/>

21 <http://www.cssbeauty.com/>

22 http://www.w3schools.com/browsers/browsers_stats.asp

As of July, 2006, W3Schools' screen resolution statistics showed that the number of W3Schools users who set their screen resolutions to 800×600 pixels had dropped, but not to the point that it could be safely ignored—see Figure 1.30.²³

At the time, this resolution still accounted for 17% of users, but that number had dropped by 3-5% every six months for the previous two years. Does this mean that as soon as those displays set to 800×600 have been replaced, we can all start to design sites that are 1024 pixels wide? Hardly. Even if everyone was using a resolution of 1024×768 pixels or more, not everyone will use your site with the browser window maximized.

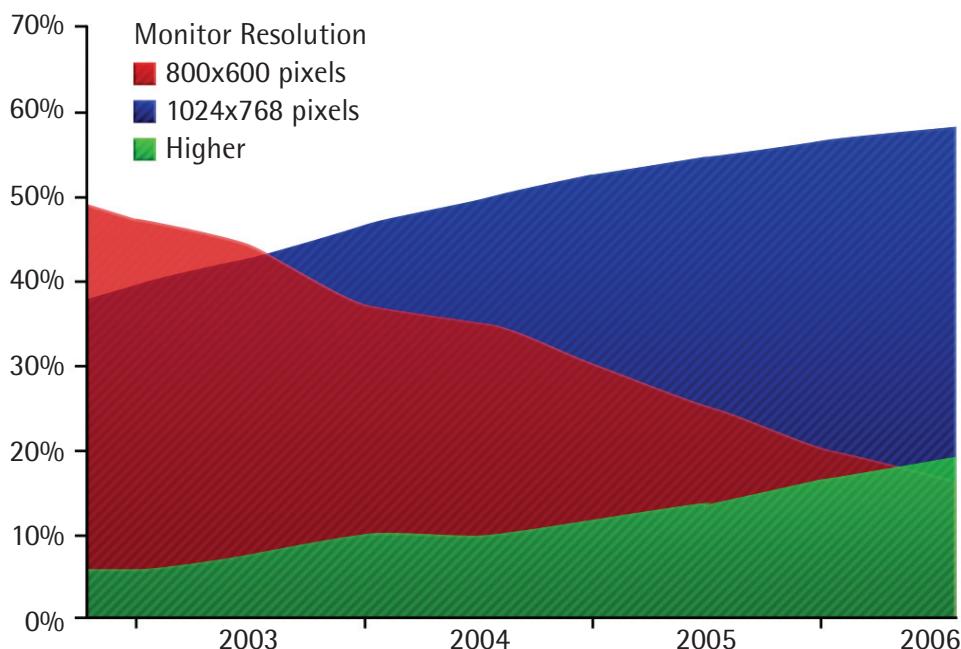


Figure 1.30: W3Schools' screen resolution statistics

Although statistics like those provided by W3Schools help to give us reason to design for higher resolutions, the most important factor in web design is the end user. If the web site you're building is for web professionals and people who are likely to use the latest computer equipment and high resolutions, it may be safe to push the design envelope and create designs that are wider than 800 pixels. The goal, though, is to prevent users from needing to scroll from left to right in order to read content. So, even if you decide to design beyond the 800-pixel standard, do not alienate the few 800×600 users you have by forcing them constantly to scroll from left to right and back again just to read your site's content. You'll only make them sea-sick!

²³ Here, we're using W3Schools' audience as a representative sample. The statistics provide a reasonable indicator of what we could expect to find among the broader web user audience, but your target audience may have different screen resolution settings.

The August 2005 redesign of design web site A List Apart provides a great example of how a design that's wider than 800 pixels can remain accessible to users with 800×600-pixel displays.²⁴ Even though a horizontal scrollbar displays on the site at an 800×600 resolution, you can see all of the real content without scrolling. At 1024×768 pixels, the horizontal scrollbar disappears, and another column becomes visible on the right, displaying search functionality, topic links, and advertising. This extra column adds functionality and structure to the design of the site, but doesn't always need to be visible.

Application: Florida Country Tile

As I explained briefly in the section called “The Design Process,” much of what I do when I design a new web site or print item is subconscious. I can usually tell you on a choice-by-choice basis why I made specific decisions, but it doesn’t come naturally to verbalize the procedures I follow. So, for me to explain how I applied graphic design principles to create a layout for a new web site, for example, is a little difficult unless I have an example to help me break the process into steps.

Enter: Florida Country Tile, a real company and a real client. Florida Country Tile is a small, Florida-based tile and stone installation company whose owners have agreed to let me use the web site design project on which I worked with them as an example here. Currently, the company doesn’t have an online presence; the only real identity collateral it has is the logo you see on the business card in Figure 1.31.

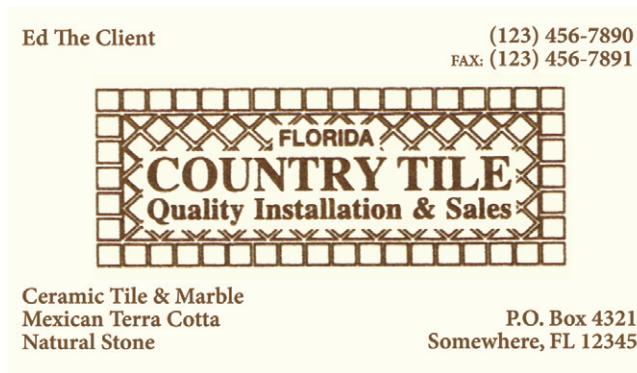


Figure 1.31: The business card of "Ed" from Florida Country Tile

I've altered the company contact information on the business card above, but that's all—other than that, this card is identical to the cards the business uses. As you can tell, this scenario isn't all that different from the one I introduced at the beginning of this chapter: the organization hasn't established a very strong visual identity.

²⁴ <http://www.alistapart.com/>

Usually, clients have specific ideas about what the site should look like. Depending on the client, these preconceptions can either help or hinder the design process—more often, the latter. However, on this project, I've been given free rein to make all design decisions, and I plan to design the site using the principles we'll cover in each chapter of this book. Hopefully, "Ed the Client" will be happy with the results, and "You the Reader" will get a clearer picture of the design process I described so vaguely earlier in this chapter.

Getting Started

To start out, I arrange a meeting with the client to discuss his needs and desires for the web site. Unfortunately, I'm in South Carolina and Ed's in Florida, so the meeting has to take place over the phone. Even though I already know this client very well and can answer many of my own questions about his business, I call him anyway. In contrast to the approach I use on most client projects, I'll communicate with Ed about each component of the web site I'm building; I'll do so toward the end of each chapter of this book. Since this chapter is all about layout, I have three key questions to ask him:

- How much content do you want to provide on the web site?
- What kinds of content do you want to provide on the web site?
- Is the logo on the business card used consistently across all collateral to brand your company?

I want to get an idea of how many pages I'll be working with, so that I can anticipate how large my main navigation menu will be. Before I call Ed, I jot down a list of the pages I'd expect on a small web site: Home, About, and Contact. After thinking about the tile industry a bit more, and looking at other tile web sites, I decide to add Gallery, Services, and Estimate Request pages.

When I speak with Ed, he's pleased with this list of pages, but he wants to know if he could add another page or two in the future. I assure him that I'll work some flexibility into the layout to accommodate the possibility of extra pages, and explain that he can also include subpages within each of these main sections.

I also explain that the reason I want to know about the company's logo is that the current rectangular tile pattern background limits the design possibilities that are available to us. He understands this, and says that the company shirts use a simplified pattern, shown in Figure 1.32, and use only the words "Country Tile." He suggests I use that style of logo if I think it will work better.

The conversation is helpful. I obtain the information I need about the content, and it looks like I've got a little flexibility with the logo presentation. With a navigation list of only

six to eight pages, I could use a side navigation bar, but I have plenty of room to place the navigation along the top of the page. In fact, that sounds pretty good to me. I think it's time to move on to a grid.



Figure 1.32: Embroidered Country Tile logo

Rather than sticking to my wide-ruled 79¢ spiral notebook, I pull a piece of blank paper out of my printer tray and draw out four 3×3 grids. I'm not sure exactly how I want to present the logo. That doesn't matter at this point, though—I'm just trying to decide how to configure my blocks. After all that talk about how right-column layouts don't get a lot of use, I'm thinking about having a multi-purpose sidebar on the right-hand side of the display. I can see us using this area for content on some pages, for a gallery or featured item on the homepage, and possibly as a subnavigation section on the Services page. I can use the emphasis properties we talked about earlier to make the content section stand out, but I'll keep in mind our discussion of unity to make sure that this sub-column fits into the overall page design.

With those parameters in mind, I quickly sketch out the four ideas depicted in Figure 1.33.

In the first sketch (upper-left), the sidebar and main content are top-aligned within the upper third of the square. It looks okay, but is fairly basic.

For my second attempt (upper-right), I went with a left- instead of a right-hand column. I then put the logo over the content and added an image of a company van above the sidebar. Immediately, I decided that I didn't like this logo placement—I thought the left-hand column was getting too much emphasis. Plus, the van looked like the Mystery Mobile—“Like, Zoinks!!”

My third attempt (lower-left) wasn't much better. I started off by putting the logo in the bottom of the upper-left square of my grid, and although I liked the location of the content area, the blocky business card logo presentation stopped the layout from looking unified.

Time for a fourth attempt (lower-right), with one ball and two strikes (to borrow from Baseball parlance). For the content and sidebar areas, I decided to use shapes that were similar to my third sketch, but I placed the logo and menu as close as possible to the top of

the layout. Then, I realized that I could use the area between the top of the content and the navigation bar as an image gallery.

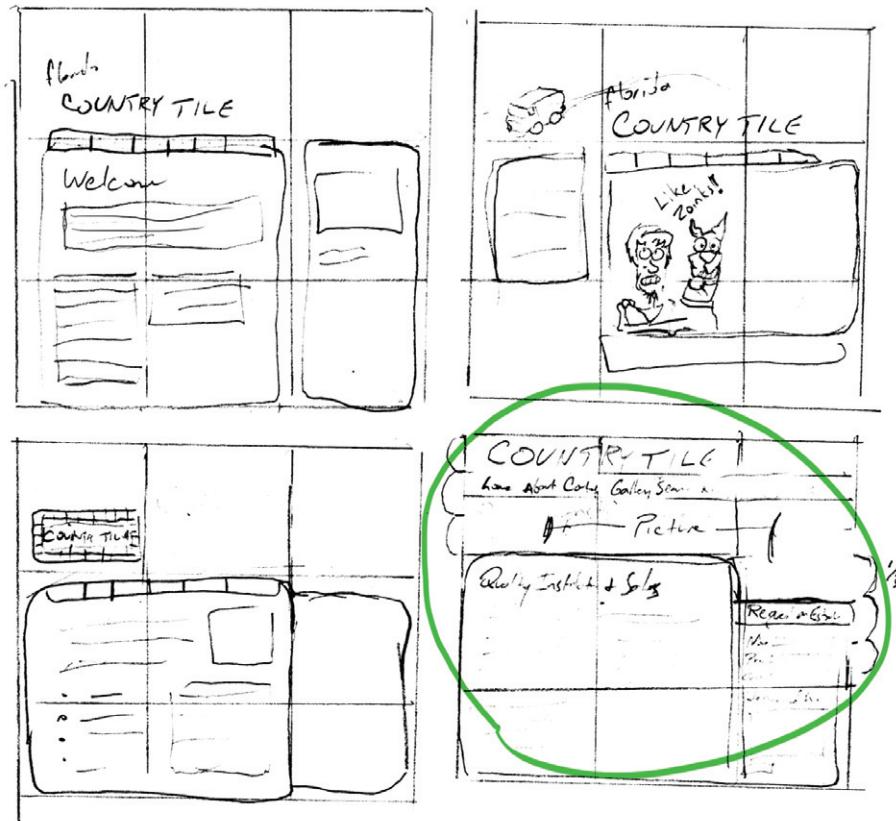


Figure 1.33: 3x3 grid sketches for Florida Country Tile—please ignore the Mystery Mobile

I'm quite pleased with the final sketch, so I choose it instead of the first one, and decide to move on to build the layout using gray boxes in Adobe Illustrator. I don't anticipate having a lot of content for this site, so I think it would be best to restrict it to a fixed-width design. Whenever I know I'm dealing with a fixed-width site, my mind always jumps to the question of what we'll see outside the boundaries of the containing block. Will that block blend with the background, or will a different color or background pattern display there? We'll discuss those choices in detail in later chapters.

I start out in the graphics program the same way I started on paper. I create my 3x3 grid and work within it to create a layout that's similar to the one I scratched out on paper. Even though I used a few shades of gray, I'm not worried about choosing colors yet—that's what the next chapter's going to be about. At the moment, I'm just trying to create contrast between the blocks so that I can tell what's what, and where I intend to use separate colors. Figure 1.34 shows the results of my handiwork.

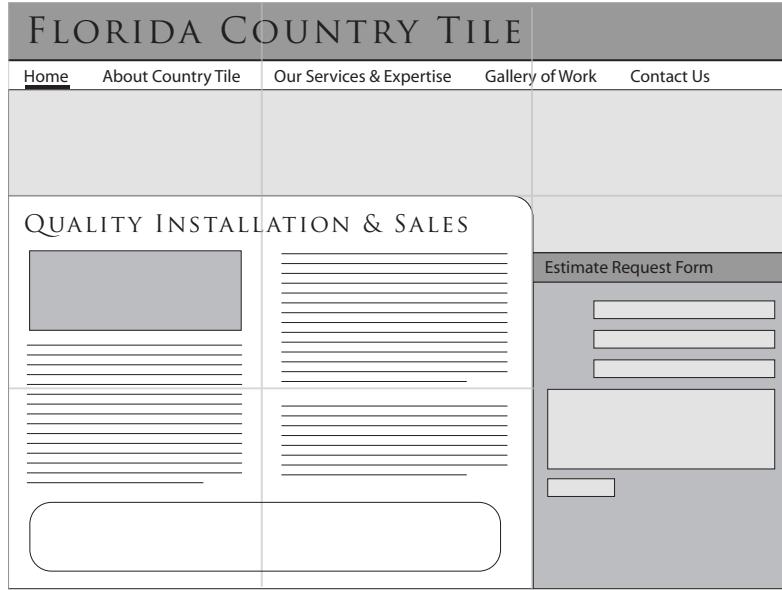


Figure 1.34: Initial gray box layout for Florida Country Tile

Earlier in the chapter, I said that in a good design, users “recognize each page as belonging to the design.” That doesn’t necessarily mean that the layout of each page has to be exactly the same. In fact, I usually try to work in some contrast between the homepage and the rest of the site. Right now, I’m just trying to get the general layout nailed down. Once I’ve defined my layout, and I’ve given it some color and texture, I’ll modify that layout so that the homepage has a little more of a graphical feel. To get an idea of what I mean, take a look at Figure 1.35, which shows the homepage and the Zen Stories page from Roan Lavery’s personal site, Renegade Zen.²⁵

Notice how Roan has expanded the header area on the homepage to include some introductory content. Also, check out the changes in the content areas between these two pages. On the homepage, the first thing we see are pictures and graphics—three columns of them. In contrast, the Zen Stories section, which features text only, has been reduced to two columns. The design has consistency even though the layouts have been modified slightly to serve the specific purposes of the different pages. This is the kind of contrast I was talking about earlier, and these are the kinds of layout changes I’d eventually like to make in the Florida Country Tile layout. For now though, I have a solid base layout. It’s time to move on to the next subject: color!

²⁵ <http://renegadezen.com/>

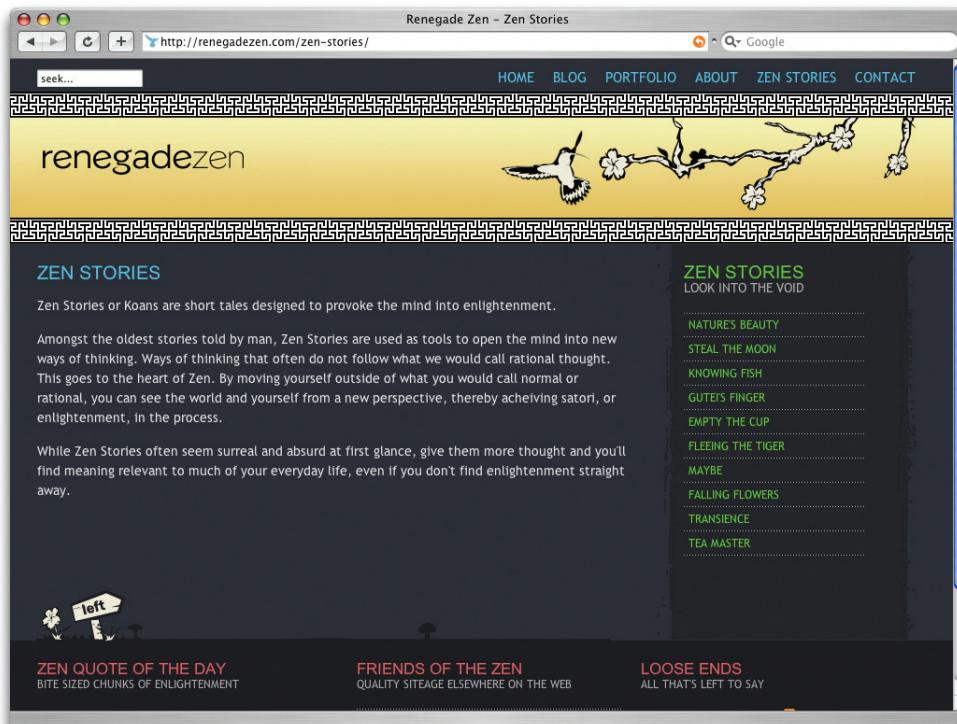
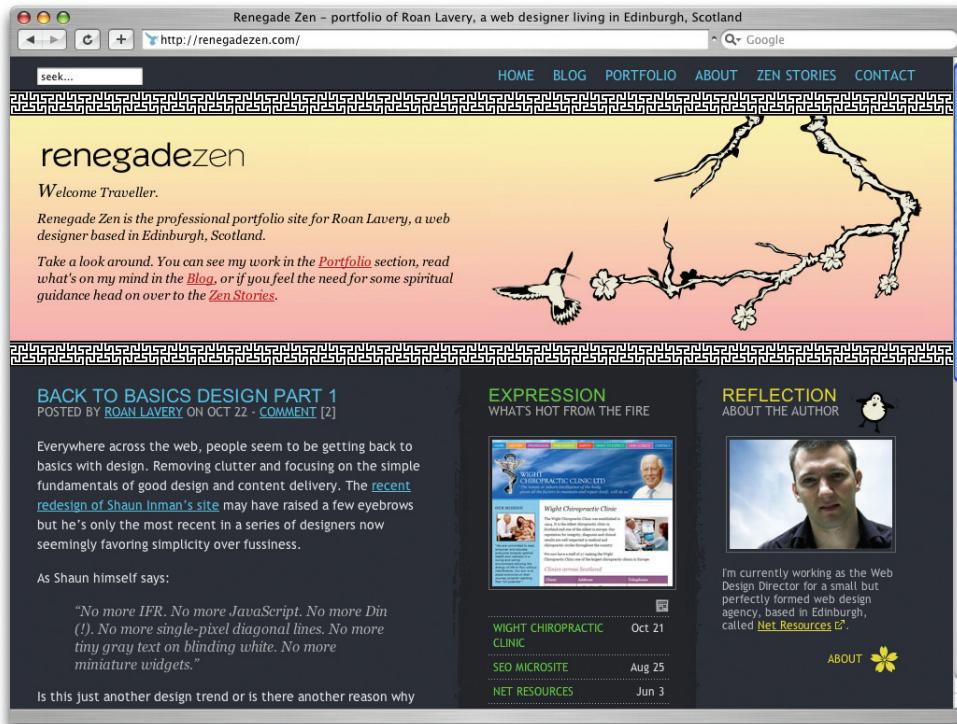


Figure 1.35: Homepage and Zen Stories page from Roan Lavery's Renegade Zen site

What's Next?

If you've enjoyed this chapter from *The Principles of Beautiful Web Design*, why not order yourself a copy?

The Principles of Beautiful Web Design will show you just how easy it can be to create aesthetically pleasing and usable web site designs. This gorgeous, full-color book will guide you through the complete design process from getting inspiration and sketching ideas out through to choosing a color scheme, designing the layout, and selecting effective imagery.

In the rest of the book, you'll:

- Learn to use color effectively, develop color schemes and create a palette
- Master use of textures: lines, points, shapes, volumes, and depth
- Learn how good typography can make ordinary designs look great
- Effective imagery: choosing, editing and placing images
- Understand what makes “good design”
- Follow an example design from concept to completion
- And much more!

You'll also follow along as author and design guru Jason Beaird creates the complete Florida Country Tile design he started in this chapter, putting the techniques that you've learned to practical use.

The book's full color layout and larger than normal size (8" x 10") were especially designed to help show off the techniques demonstrated in the book.

Throughout, the focus is on simple and practical techniques that anyone can use – you don't need to have gone to art school or have artistic flair to create stunning designs using the methods outlined in this book.

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