

Making Everything Easier!™

3rd Edition

# WordPress® Web Design

FOR  
**DUMMIES**®  
A Wiley Brand

## Learn to:

- Create dynamic, custom websites with the self-hosted version of WordPress
- Determine color scheme, site navigation, and typography based on your design strategy
- Plan your design for mobile device and tablet users

**IN FULL COLOR!**

**Lisa Sabin-Wilson**

*Author of WordPress For Dummies*





# **WordPress<sup>®</sup> Web Design**

FOR  
**DUMMIES<sup>®</sup>**  
A Wiley Brand

***3rd Edition***

**by Lisa Sabin-Wilson**

FOR  
**DUMMIES<sup>®</sup>**  
A Wiley Brand

WordPress® Web Design For Dummies®, 3rd Edition

Published by: **John Wiley & Sons, Inc.**, 111 River Street, Hoboken, NJ 07030-5774, [www.wiley.com](http://www.wiley.com)

Copyright © 2016 by John Wiley & Sons, Inc., Hoboken, New Jersey

Published simultaneously in Canada

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without the prior written permission of the Publisher. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748-6011, fax (201) 748-6008, or online at <http://www.wiley.com/go/permissions>.

**Trademarks:** Wiley, For Dummies, the Dummies Man logo, Dummies.com, Making Everything Easier, and related trade dress are trademarks or registered trademarks of John Wiley & Sons, Inc. and may not be used without written permission. WordPress is a registered trademark of WordPress Foundation. All other trademarks are the property of their respective owners. John Wiley & Sons, Inc. is not associated with any product or vendor mentioned in this book.

**LIMIT OF LIABILITY/DISCLAIMER OF WARRANTY: THE PUBLISHER AND THE AUTHOR MAKE NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS WORK AND SPECIFICALLY DISCLAIM ALL WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. NO WARRANTY MAY BE CREATED OR EXTENDED BY SALES OR PROMOTIONAL MATERIALS. THE ADVICE AND STRATEGIES CONTAINED HEREIN MAY NOT BE SUITABLE FOR EVERY SITUATION. THIS WORK IS SOLD WITH THE UNDERSTANDING THAT THE PUBLISHER IS NOT ENGAGED IN RENDERING LEGAL, ACCOUNTING, OR OTHER PROFESSIONAL SERVICES. IF PROFESSIONAL ASSISTANCE IS REQUIRED, THE SERVICES OF A COMPETENT PROFESSIONAL PERSON SHOULD BE SOUGHT. NEITHER THE PUBLISHER NOR THE AUTHOR SHALL BE LIABLE FOR DAMAGES ARISING HEREFROM. THE FACT THAT AN ORGANIZATION OR WEBSITE IS REFERRED TO IN THIS WORK AS A CITATION AND/OR A POTENTIAL SOURCE OF FURTHER INFORMATION DOES NOT MEAN THAT THE AUTHOR OR THE PUBLISHER ENDORSES THE INFORMATION THE ORGANIZATION OR WEBSITE MAY PROVIDE OR RECOMMENDATIONS IT MAY MAKE. FURTHER, READERS SHOULD BE AWARE THAT INTERNET WEBSITES LISTED IN THIS WORK MAY HAVE CHANGED OR DISAPPEARED BETWEEN WHEN THIS WORK WAS WRITTEN AND WHEN IT IS READ.**

For general information on our other products and services, please contact our Customer Care Department within the U.S. at 877-762-2974, outside the U.S. at 317-572-3993, or fax 317-572-4002. For technical support, please visit [www.wiley.com/techsupport](http://www.wiley.com/techsupport).

Wiley publishes in a variety of print and electronic formats and by print-on-demand. Some material included with standard print versions of this book may not be included in e-books or in print-on-demand. If this book refers to media such as a CD or DVD that is not included in the version you purchased, you may download this material at <http://booksupport.wiley.com>. For more information about Wiley products, visit [www.wiley.com](http://www.wiley.com).

Library of Congress Control Number: 2015951790

ISBN 978-1-119-08864-6 (pbk); 9781119088462 (ebk); 9781119088608 (ebk)

Manufactured in the United States of America

10 9 8 7 6 5 4 3 2 1

# Table of Contents

## *Introduction ..... 1*

About This Book.....	1
Foolish Assumptions.....	2
Icons Used in This Book.....	3
Beyond the Book.....	3
Where to Go from Here.....	4

## *Part I: Establishing a WordPress Foundation ..... 5*

### **Chapter 1: Exploring Web Design with WordPress ..... 7**

Delving Into the Differences Between Blogs and Websites.....	8
Using WordPress as a Content Management System.....	10
Discovering the World of WordPress Themes.....	12
Checking Out Premium WordPress Themes and Frameworks.....	15
Getting Your Site Up and Running.....	16

### **Chapter 2: Understanding WordPress Requirements ..... 17**

Establishing Your Domain.....	17
Understanding domain name extensions.....	18
Considering the cost of a domain name.....	18
Registering your domain name.....	19
Finding a Home for Your Website.....	20
Examining what services web hosts offer.....	21
Finding a host that provides WordPress features.....	23
Planning for future needs.....	23
Being cautious about offers of unlimited space and bandwidth.....	24

### **Chapter 3: Installing WordPress on Your Web Server ..... 25**

Installing WordPress.....	25
Setting up the MySQL database.....	27
Uploading the WordPress files.....	29
Running the install script.....	31
Discovering WordPress Release Cycles.....	37
Understanding why you need to upgrade regularly.....	38
Examining release cycles.....	39
Keeping Track of WordPress Development.....	40

**Chapter 4: Managing Content with WordPress . . . . . 43**

Archiving Content with WordPress.....	43
Building categories .....	46
Changing the name of a category .....	47
Creating new categories.....	49
Using static page parents and children .....	50
Customizing Permalinks .....	52
Making your post links pretty .....	52
Customizing your permalinks .....	54
Making sure that your permalinks work with your server .....	55
Syndicating Your Content with RSS Feeds .....	57
Introducing feed readers .....	58
Discovering the many WordPress RSS options.....	58
Using your RSS feeds with your social media accounts .....	59

**Part II: Choosing the Right Tools ..... 61****Chapter 5: Exploring Editors, Browsers, and FTP . . . . . 63**

Choosing the Right Text Editor for You .....	64
Notepad (Windows).....	64
Notepad++ (Windows).....	65
TextMate (Mac).....	67
Understanding and Choosing a Web Browser .....	67
Discovering browsers and tools .....	67
Understanding cross-browser compatibility .....	70
Introducing File Transfer Protocol (FTP) .....	72
Setting Up FTP on Your Hosting Account .....	74
Transferring Files with an FTP Client.....	76
Connecting to the web server via FTP .....	76
Transferring files from point A to point B .....	79
Editing files by using FTP.....	80
Changing file permissions.....	81

**Chapter 6: Choosing Graphics and Software Resources . . . . . 83**

Exploring Image Types and Formats.....	83
Comparing raster and vector images .....	84
Looking at image file formats .....	86
Exploring Graphic Design Software.....	88
Using raster-based software.....	89
Using vector-based software .....	93
Using Online Image-Optimization Tools .....	95
Finding Online Image Libraries .....	96



<b>Chapter 7: Choosing Colors and Fonts</b> .....	<b>99</b>
Understanding Color .....	99
Checking out the color wheel.....	100
Examining the RGB and hex color models.....	101
Creating Color Schemes with Helpful Tools .....	102
Exploring different color combinations .....	102
Finding RGB and hex codes .....	104
Understanding Typography Essentials.....	106
Exploring font styles.....	106
Discovering web-safe fonts for content .....	108
Finding and Using Fonts for Graphic Design.....	110
Finding the right fonts for your project .....	110
Installing fonts on your computer .....	111

<b>Chapter 8: Planning Your Design Strategy</b> .....	<b>113</b>
Choosing the Width of Your Website.....	114
Designing with a fixed width .....	115
Designing with a fluid width .....	119
Designing a responsive layout .....	121
Choosing the Number of Columns .....	124
Determining Website Navigation .....	127
Understanding Content Display Options.....	128
Testing Your Design in a Sandbox Environment .....	129
Creating a sandbox environment.....	130
Using a plugin to back up and transfer from your sandbox.....	133
Using WordPress in a local environment.....	134

## *Part III: Working with WordPress Themes..... 135*

<b>Chapter 9: Finding and Installing a WordPress Theme</b> .....	<b>137</b>
Finding and Installing a Theme from the Theme Directory .....	138
Deciding to Use a Premium Theme .....	140

<b>Chapter 10: Working with the Default Theme: Twenty Fifteen</b> .....	<b>141</b>
Exploring the Layout and Structure .....	142
Customizing the Header Image .....	143
Uploading Your Own Header Image .....	143
Including Custom Navigation Menus .....	147
Enhancing Your Website with Widgets .....	151
Understanding how widgets work .....	151
Adding widgets to the sidebar of the Twenty Fifteen theme .....	153
Using the Text widget.....	154
Adding the RSS widget .....	156

<b>Chapter 11: Dissecting Themes and Templates . . . . .</b>	<b>159</b>
Understanding How PHP and MySQL Work Together .....	160
Exploring PHP Basics .....	160
Examining the makeup of a template tag.....	161
Trying out a little PHP .....	162
Managing Your MySQL Database .....	164
Viewing the Template Files in a WordPress Theme.....	166
Examining the Templates That Make	
Up a WordPress Theme .....	169
The stylesheet .....	171
The Main Index and The Loop .....	172
The Header template.....	177
The Sidebar template .....	181
The Footer template.....	181
Other template files .....	182
Exploring Template Tags, Values, and Parameters .....	183
Customizing Your Blog Posts with Template Tags .....	185
Putting It All Together.....	186
Connecting the templates.....	186
Using additional stylesheets .....	195
<b>Chapter 12: Displaying Content with Widgets and</b>	
<b>Template Tags. . . . .</b>	<b>197</b>
Exploring Common Template Tags .....	198
Calendar .....	198
List pages .....	199
Post archives .....	201
Categories .....	201
Content types (WP_Query tag) .....	204
Miscellaneous but useful template tags.....	206
Adding New Widget Areas to Your Theme.....	208
Registering your widget areas.....	208
Adding widget areas to your template files.....	209
Using Template Files .....	210
Creating named templates.....	210
Creating and using template parts .....	211
Exploring content-specific standard templates .....	214
Using Page templates .....	215
Adding Theme Support for Built-In Features .....	217
Adding support for custom navigation menus .....	218
Adding support for custom post types .....	225
Adding support for post formats .....	232
Adding support for post thumbnails.....	239
<b>Chapter 13: Understanding Parent and Child Themes. . . . .</b>	<b>245</b>
Customizing Theme Style with Child Themes .....	245
Creating a child theme .....	246



Loading a parent theme's style .....	247
Customizing the parent theme's styling .....	249
Using images in child theme designs .....	250
Modifying Theme Structure with Child Themes.....	252
Overriding parent template files.....	253
Adding new template files.....	254
Removing template files.....	255
Modifying the theme functions file.....	256
Preparing a Parent Theme.....	257

## ***Part IV: Building Your Custom Website ..... 259***

### **Chapter 14: Using Basic CSS and HTML to Customize Your Site Design ..... 261**

Styling with CSS: The Basics .....	262
Introducing CSS.....	262
CSS selectors .....	264
Classes and IDs.....	265
CSS properties and values .....	266
Changing the Background Image or Color Used in Your Theme.....	267
Adding the custom background feature to a theme.....	267
Customizing the background .....	268
Changing the background using CSS.....	270
Defining and Positioning Your Header Image with CSS.....	271
Defining a background image to use as a header .....	271
Positioning, repeating, or scrolling your background image.....	272
Changing Basic Elements to Create a Unique Look for Your Site.....	273
Adding background colors and image effects.....	274
Choosing a font family, color, and size .....	274
Using borders in your design .....	276
Understanding Basic HTML Techniques to Use on Your Site .....	277
Inserting images .....	279
Inserting hyperlinks.....	279
Inserting lists .....	280

### **Chapter 15: Designing for WordPress as a CMS ..... 283**

Creating the Front Page of Your Website.....	284
Creating a static page.....	286
Assigning a static page as the front page .....	287
Tweaking the page to look like a website rather than a blog.....	288
Adding a Blog to Your Website.....	290
Creating a blank page for the blog.....	291
Assigning the new page as a blog .....	291

Creating Custom Page Templates to Achieve Different Layouts and Styles .....	292
Viewing the default Page template (page.php) .....	293
Creating a new category Page template .....	294
Comparing two Page templates .....	296
Creating Different Sidebar and Footer Templates for Your Pages .....	297
Creating Custom Styles for Sticky, Category, and Tag Posts .....	298

## **Chapter 16: Enhancing Your Website with Plugins . . . . . 301**

Installing WordPress Plugins via the Dashboard .....	302
Finding free plugins .....	302
Installing and activating a plugin .....	304
Installing Plugins Manually .....	306
Exploring E-Commerce Plugins to Use on Your Site .....	307
Understanding what you can do with e-commerce plugins .....	307
Examining some recommended plugins .....	308
Creating Photo Galleries or Portfolios .....	311
Inserting images into your page or post .....	311
Adding image styles to your stylesheet .....	317
Inserting a photo gallery .....	318
Creating Web Forms for Your Site with Plugins .....	323
Exploring different types of forms you can use on your site .....	324
Using helpful plugins to create forms .....	324
Building a Social Community with BuddyPress .....	327
Using Plugins to Integrate Popular Social Networks with Your Blog .....	330
Integrating Twitter with Twitter Tools .....	330
Integrating Facebook with WordPress .....	331

## **Part V: The Part of Tens . . . . . 333**

### **Chapter 17: Ten Powerful Plugins for WordPress . . . . . 335**

WordPress SEO .....	335
BackupBuddy .....	336
WP-Print .....	336
AppPresser — Mobile App Framework .....	337
Jetpack .....	338
Sucuri Sitecheck Malware Scanner .....	340
Facebook .....	341
WooCommerce .....	341
WP Super Cache .....	342
Google XML Sitemaps .....	343

<b>Chapter 18: Ten Well-Designed Sites That Use WordPress as a CMS</b> .....	<b>345</b>
IconDock .....	345
Kate Rusby .....	346
Katy Perry .....	347
LIVESTRONG .....	347
Microsoft News Center .....	348
Discovery Communications .....	348
Time .....	349
WebDevStudios .....	350
WeGraphics .....	350
WordPress.org .....	351
<b>Chapter 19: Ten Free WordPress Themes</b> .....	<b>353</b>
Hybrid .....	353
designPile .....	354
Responsive .....	354
P2 .....	355
Annotum Base .....	355
Blackbird .....	356
iTheme2 .....	356
Esquire .....	357
WP-Creativix .....	357
Gridline .....	357
<b>Index</b> .....	<b>359</b>



# Introduction

---

**W**ordPress is the most popular content management system (CMS) on the web. Users of the WordPress platform can easily publish their content on the Internet because of its intuitive user interface. A large segment of the WordPress user community wants to delve a bit deeper into the platform so that they can not only publish content, but also make their websites look fantastic by designing, customizing, and manipulating their WordPress themes. In fact, as a WordPress designer and consultant myself, two of the most frequent questions I hear from my clients are “How can I design my own theme for WordPress?” and “How can I design and build my entire website with WordPress?”

*WordPress Web Design For Dummies*, 3rd Edition, answers those questions and unlocks the mysteries of designing websites with the WordPress content management system. If you have ever tried to tweak an existing WordPress theme file, or even design your own WordPress theme from scratch, and have found it to be intimidating or too difficult to understand, this book breaks it down for you in a friendly and easy-to-understand manner.

## About This Book

This book starts by walking you through the basics of understanding and setting up WordPress so that you can

- ✓ Understand the fundamental difference between a blog and a website.
- ✓ Define what a content management system (CMS) is.
- ✓ Explore different ways that websites use WordPress.
- ✓ Get to know WordPress basic requirements.
- ✓ Explore web-hosting recommendations.
- ✓ Install WordPress on your web server.
- ✓ Discover ways to publish and manage your content.

In this book, you also discover the right tools to use for publishing and designing with WordPress, including tools that help you

- ✓ Write and edit code.
- ✓ Transfer files from your computer to your web server.

- ✔ Create, edit, and design graphics.
- ✔ Choose color schemes and fonts.
- ✔ Plan your design strategy.

*WordPress Web Design For Dummies*, 3rd Edition, also addresses issues related to web design by walking you through some basic design skills, such as understanding and designing with Cascading Style Sheets (CSS) and HyperText Markup Language (HTML). You also explore basic design concepts, such as color, typography, and layouts.

Finally, this book wouldn't be complete without in-depth information on using the WordPress technology to create dynamic websites. I introduce templates and themes and explain how to use WordPress template tags to create great features. I show how to use WordPress to build all sorts of websites, such as small business sites, e-commerce sites, photo galleries and portfolios, real-estate sites, social communities and discussion forums, and more.

## Foolish Assumptions

I made a few small assumptions, and one very large one, about you while I wrote this book. I want to get the large one out of the way immediately: You already know how to use WordPress.

Yes, that's right — this book doesn't show you how to use the WordPress software to publish posts, create categories, or use the Dashboard, for example. I assume you have that knowledge already and you've been working with WordPress for at least a few weeks. My other book, *WordPress For Dummies* (now in its seventh edition), is a fantastic companion to this one because it takes you, starting with step 1, through all the steps you need to know to use WordPress. If you feel you may need a review or a solid introduction to the WordPress software, pick up a copy of that book, too.

I also assume you use the self-hosted version of WordPress that you downloaded from the official WordPress website at <https://wordpress.org>. The other version of WordPress, the hosted service at <https://wordpress.com>, is *not* compatible with the extensive theme customizations and plugin usage and installations discussed in this book. In fact, the hosted service that WordPress offers at <https://wordpress.com> is *not* covered in this book.

Other assumptions I make about you include these:

- ✔ You're interested in finding out how to tweak and/or build a WordPress theme. This includes aspects of graphic design, CSS, and HTML.
- ✔ You have a domain name and a hosting account, or you will set them up very soon, as described in Chapter 2. (You can't use the hosted WordPress.com service to accomplish everything I present in this book.)

- ✔ You're a savvy Internet user, and you can use the Internet to search for information, download files, and browse websites and blogs.
- ✔ You have a basic understanding of what blogs are and how people use them to communicate their thoughts and content on the web.

## Icons Used in This Book

*Icons* are those little pictures in the margins of this book that emphasize information that I think you may find helpful, that may be a danger to be aware of, that's aimed for techies, or that's a point to remember. Those points are illustrated as follows:



Tips are little bits of information that you may find useful — procedures that aren't necessarily obvious to the casual user or beginner.



When your mother warned you, "Don't touch that pan — it's hot!" but you touched it anyway, you discovered the meaning of the word "Ouch!" I use this icon for situations like that.



You don't need to possess a PhD in computer programming to understand how to build websites using WordPress; however, occasionally the information presented in this book can inch a little more into the geeky side. That's when I use this icon.



This icon is self-explanatory — I use it next to information I want you to remember and possibly come back to later.

## Beyond the Book

To supplement the content in this book, you can find extra content online. Go online to find the following items:

- ✔ **Cheat Sheet:** At [www.dummies.com/cheatsheet/wordpresswebdesign](http://www.dummies.com/cheatsheet/wordpresswebdesign), you'll discover WordPress tools and resources, how to use HTML and CSS to customize your theme, how to select image-editing programs for your web design projects, and how to find several resources for WordPress themes.
- ✔ **Dummies.com online articles:** At [www.dummies.com/extras/wordpresswebdesign](http://www.dummies.com/extras/wordpresswebdesign), you'll learn how to find a web host for your WordPress website, explore image types and formats, find out how to use the WP\_Query Class to display content on your WordPress site, and enjoy an additional Part of Tens article.

✔ **Updates:** Occasionally, Wiley's technology books are updated. If this book has technical updates, they'll be posted at [www.dummies.com/extras/wordpresswebdesign](http://www.dummies.com/extras/wordpresswebdesign).

## *Where to Go from Here*

This book is a veritable smorgasbord of information, ideas, concepts, tools, resources, and instruction about WordPress web design. Some of it will apply directly to what you want to do with your WordPress blog. Other parts deal with topics that you're only mildly curious about, so you may want to skim those pages.

I don't intend for you to read this book from cover to cover (unless you're my mother — then I won't forgive you if you don't). Rather, scan the Table of Contents and the Index of this book to find the information you need.

If you already have WordPress installed on your web server, you can skip Chapter 3. If you have a good understanding of text editors and FTP, you can skip Chapter 5. If don't want to find out how to apply CSS or HTML to enhance your design, you can skip Chapter 14.

Long story short: Take what you need and leave the rest.



## Part I

# Establishing a WordPress Foundation

getting started  
with

**WordPress  
Web Design**



Visit [www.dummies.com](http://www.dummies.com) for more great *For Dummies* content online.

## *In this part . . .*

- ✓ Get an overview of the concepts of WordPress web design, including the basic requirements needed to design with WordPress.
- ✓ Discover how to install WordPress on your web server.
- ✓ Explore the different types of content that can be published with WordPress.
- ✓ Build a solid starting point for designing your website with WordPress.

# Exploring Web Design with WordPress

---

## *In This Chapter*

- ▶ Comparing blogs and websites
  - ▶ Introducing WordPress as a content management system (CMS)
  - ▶ Understanding ways to publish content with WordPress
  - ▶ Discovering WordPress free and premium theme options
- 

**W**hen you discover that you can build and design more than just a blog with WordPress, you begin to realize the potential of the software and how you can apply it to your website-building efforts. For me, the lightbulb went off in 2005 when my clients came to me wanting more than a blog on their sites. Many of them ran small businesses and needed to add other features to their websites, aside from the chronological display of the blog posts they'd been publishing.

This chapter introduces you to the concept of using WordPress as a content management system (CMS). You find out what CMS really means and see how you can apply it to your own website-designing efforts. You also discover what types of content you can publish with WordPress software and how you can leverage that content to build dynamic websites.

Additionally, this chapter introduces you to the world of WordPress themes — what's currently available for you to use right away, what you can tweak to your own liking, and what you can research and dig through to discover more about WordPress design and theme building. You find out which themes are free for the taking and which themes cost you money to use. (*Hint:* The free ones are the best ones to practice with because there's no cost to you!)



This book deals *only* with the *self-hosted* version of WordPress that you download from the official WordPress website (<https://wordpress.org>). You can't fully customize and use WordPress as a CMS, as described throughout this book, if you use the *hosted* service at WordPress.com (<https://wordpress.com>). The names (and domains) are so close that it's

easy to confuse them, so the basic rule of thumb is this: If you did *not* install the software on a web-hosting account for your own domain, you're using the incorrect version of WordPress.

## Delving Into the Differences Between Blogs and Websites

If you read the introduction to this book, you know that I assume you already know how to use WordPress to publish content on the web. Therefore, you're likely already aware of what a blog is and can recognize one when you encounter it on the Internet.

But just in case, a *blog* is typically a chronological listing of blog posts (or articles) that you (as a blogger) have published on the web. Often, having only a blog on a domain suits many people just fine — these people are referred to as bloggers, because they blog; that is pretty much all they do on their domain.

Figure 1-1 shows you what a typical blog looks like with the chronological display of blog posts with categories, publish dates, and comments.



Figure 1-1: My business blog at <http://webdevstudios.com/blog>.

Blogs have predictable features that you can assume exist, including

- ✓ A chronological listing of blog posts
- ✓ Blog posts archived by date, category, author, and *tags* (microcategories)
- ✓ A commenting feature that invites readers to leave comments on blog posts
- ✓ RSS (really simple syndication) feeds for posts and comments that get syndicated in RSS feed readers like Feedly (<http://feedly.com>)

You can build a website with WordPress as well; however, it encompasses so much more than just having a blog on your domain. Many websites built with WordPress, such as business or corporate sites, don't even have a blog. Other websites have blogs, but they're not the main focus of the site. Several types of sites, such as business sites, have more content and features than just blog posts to offer visitors, and WordPress allows you to have both a blog and a full-blown website.



When designing a website, you need to sit down and map out which of the many WordPress features you're going to use, as well as decide how and where you're going to use them on the site. Chapter 8 takes you through planning your design strategy — don't miss it!

My business website, WebDevStudios (<http://webdevstudios.com>), is a good example of using WordPress as a content management system (CMS) to design and create a small business website. For instance, in Figure 1-2, you see that the front page of my business website doesn't look anything like a traditional blog; however, if you look near the top, you see a link to the blog.

You can manage and maintain several sections of your website through the use of one installation of the WordPress software on your web-hosting account, and create the visual look and design/layout of the site through manipulation of the WordPress theme templates. (I introduce themes later in this chapter.)

I have a blog on my business website, but it's secondary to the other content I display there, including

- ✓ A front-page portal that displays content from several sections of my internal website pages
- ✓ A design portfolio of work (<http://webdevstudios.com/portfolio>)
- ✓ Unique landing pages for specific service offerings
- ✓ An email contact form that allows readers to get in touch
- ✓ An order form that gives visitors the chance to submit a request for services



**Figure 1-2:** My business website is powered by WordPress.



The chapters in Part III of this book give you the information you need to work with and create WordPress theme templates, and Part IV provides solid information about design concepts like CSS and HTML that help you put your entire WordPress theme together for your own unique website design.

My business site, shown in Figure 1-2, is just one example of a type of website that can be built with the WordPress software, with or without a blog. Figures 1-1 and 1-2 illustrate some basic differences between a blog and a website. This book concentrates on website design overall, not just blog design (although all concepts presented in the chapters in this book can be applied to both).

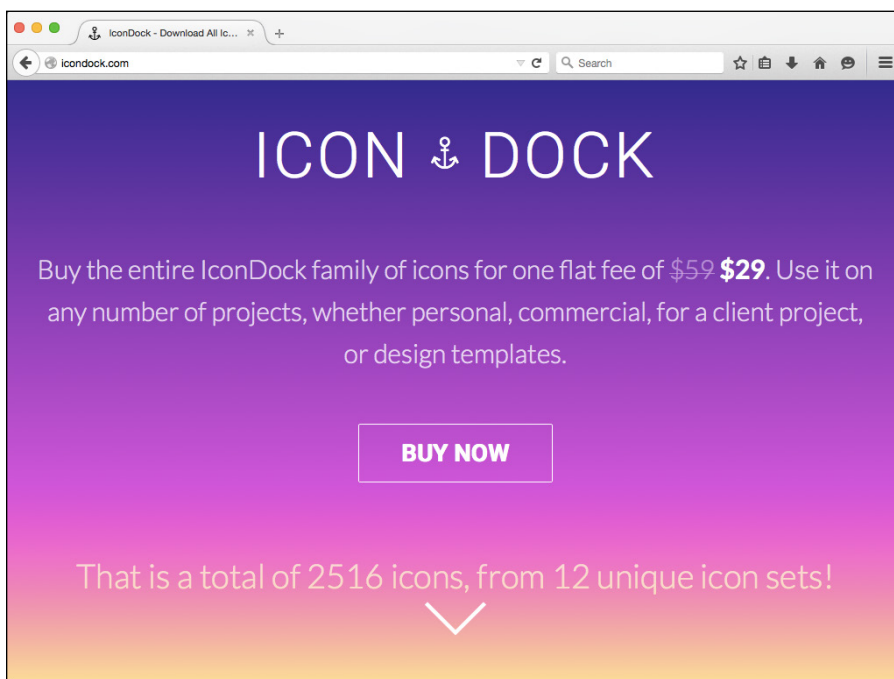
## Using WordPress as a Content Management System

A term that you'll hear regularly in the WordPress community is *CMS*, which stands for *content management system*. Whether you run a blog, a website, or both, you use WordPress to manage your content by publishing and editing it regularly.

When WordPress was first released in 2003, it became well known worldwide as the most popular blogging platform available on the web. That is still the case; however, as WordPress development has evolved over the years, it has grown from a blogging platform into a full-featured content management system that allows you to publish all sorts of content types to the web with very little technical ability or skill. Because you install WordPress on your web server and you access the back-end controls — the *Dashboard* — via a web address, it's considered a web-based content management system.

You may be asking yourself how a blogging platform, which allows you to publish content on the web, differs from a web-based content management system. The two seem to be interchangeable, and some say it's just a matter of semantics. You'll find that in the WordPress community, *content management system* refers to the ability to easily publish different types of content using one installation of WordPress. More than just a blog, you can build and design a website that includes different content types, including (but not limited to)

- ✓ **E-commerce:** Host a store, or marketplace, to sell your products and services directly on your website. Figure 1-3 shows a website called IconDock (<http://icondock.com>), which is a great example of WordPress being used as an e-commerce online store.



**Figure 1-3:** IconDock is a website that uses WordPress to power its online storefront.

- ✓ **Photo gallery or portfolio:** Create and publish photo galleries or an online portfolio of design work, creative pieces, or photography, for example.
- ✓ **Discussion forum:** Host a forum on your website where visitors can create new, and respond to existing threads of conversation with other site visitors, based around topics of shared interest.
- ✓ **Social community:** Create an integrated social community on your WordPress site that allows visitors to create profiles, groups, and forums, enabling them to interact with other visitors on your domain.
- ✓ **Small business:** Create an entire website for your business that includes *static pages* for content that doesn't change all that often (FAQ pages, terms of service, and sales pages, for example). You can decide to have a blog on your business site, or no blog at all — WordPress lets you do both.
- ✓ **Forms:** Create and include forms on your website to allow your visitors to get in touch with you directly from the pages on your domain. You can use forms as email communication tools or sales tools, or to conduct surveys to gather feedback from your readers and/or clients.
- ✓ **Social media integration:** Gather the content that you publish on other networks like Facebook or Twitter and integrate it into your website using different techniques and plugins available for WordPress.

The preceding list is just a sampling of the different types of content that you can publish and manage using WordPress as a CMS rather than as a blogging platform only. Be sure to check out Chapter 18 for some other real-life examples of websites that use WordPress as a CMS.

To include these different content types on your website, in some cases — such as with e-commerce and social communities — you need to install special *plugins*, or scripts, that extend the feature set of the WordPress software. And in certain cases like discussion forums and photo galleries, you need to account for these different content types in your WordPress theme design as well, through the use of template tags, CSS, and HTML. Part III of this book (Chapters 9 through 13) takes you through what you need to know for creating WordPress themes and templates, and Chapters 16 and 17 give you some great ideas for techniques and plugins you can use to create different features and content types on your WordPress-powered website.

## Discovering the World of WordPress Themes

WordPress *themes* are simply a group of files, called *templates*, which determine the look and basic function of your site. Literally thousands upon thousands of free WordPress themes are available for you to choose from. WordPress has an official Theme Directory on its website at <https://wordpress.org/themes> (shown in Figure 1-4).





## Open source and the GPL

WordPress is an open-source software (OSS) project; therefore, the base code that powers the WordPress software is open and available to the public for you to view, read, learn from, and maybe even apply to your own projects. Additionally, WordPress is licensed by the GPLv2 license from the Free Software Foundation ([www.fsf.org/](http://www.fsf.org/)). A copy of the license is included in every installation of the WordPress software, if you care to read it. Basically, the GPL license gives anyone the

ability to view, copy, and re-release or redistribute the code without any legal consequence. This concept applies to themes and plugins as well. That makes them an accessible tool to learn from, and because the software is free, it makes your education free (and priceless). Understand that any theme you create using WordPress must also be released under the GPL license; because they use the WordPress core code as a foundation, your theme projects automatically inherit the GPL license.

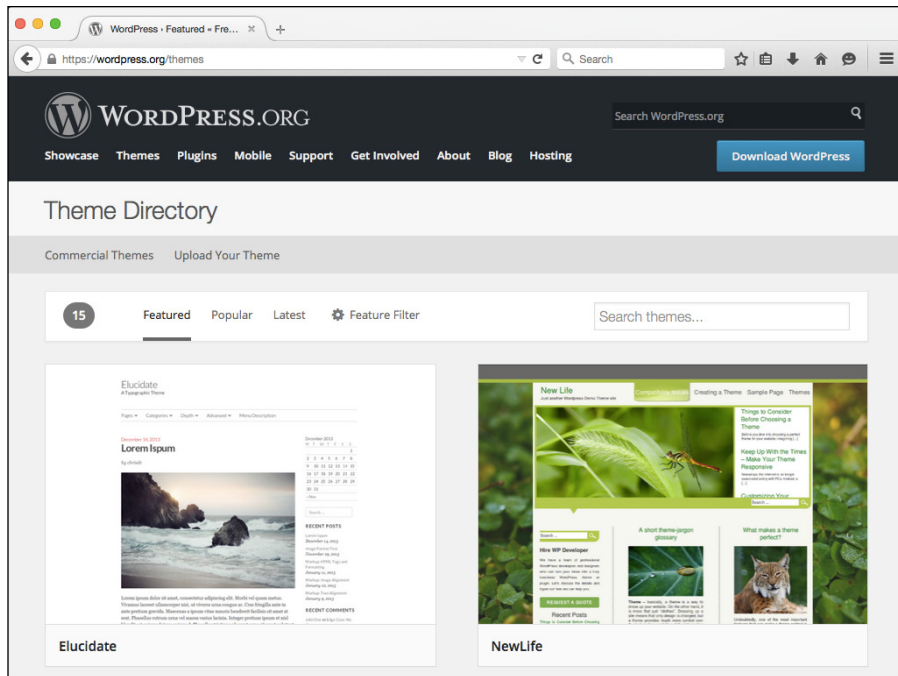
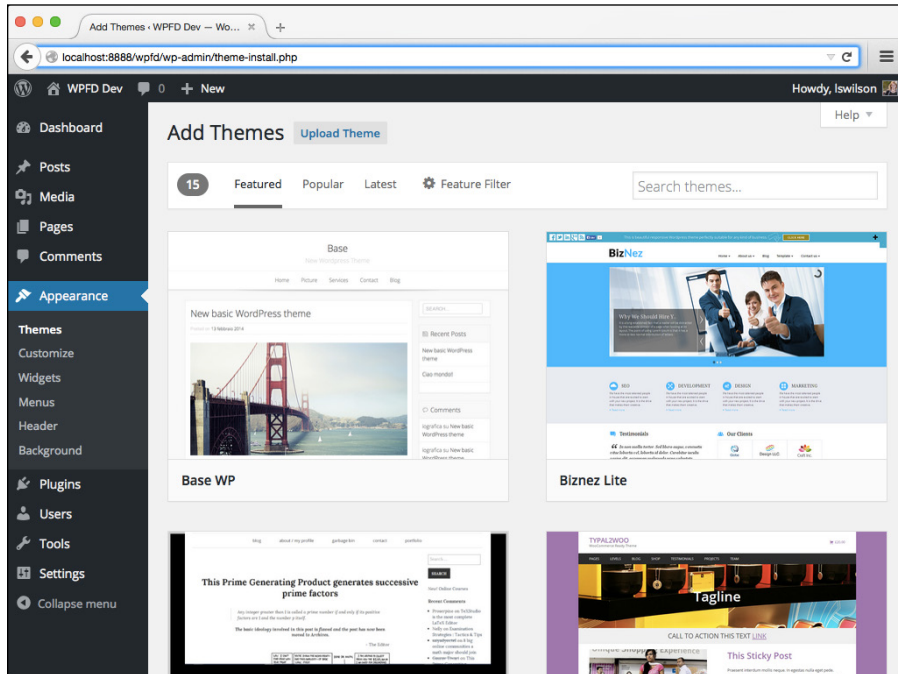


Figure 1-4: The official WordPress Theme Directory.

Additionally, you can browse, download, and install free WordPress themes from the comfort of your own WordPress Dashboard. All the themes that you find in the official free Theme Directory are also accessible within your Dashboard by choosing Appearance → Themes and then clicking Upload Theme (see Figure 1-5). (See Chapter 9 for the lowdown on installing themes.)



**Figure 1-5:** Browse thousands of free WordPress themes from your Dashboard.



WordPress themes that appear in the official directory are fully checked out, vetted, and approved for listing by WordPress. With this theme review, you can feel comfortable knowing that the theme you're using meets the guidelines that WordPress has put in place for quality control.

It's possible that you'll find exactly what you're looking for in a theme using one from the free Theme Directory; however, you and I haven't even met, but I know something about you based on the fact that you're reading this book. You want to learn how to tweak, customize, and create your own WordPress theme by learning and applying the skills necessary to do that. Free WordPress themes are a great place to start, especially themes from the official WordPress free Theme Directory. The free themes from the directory contain all the standard features that users expect from themes, so they make an excellent starting point in your learning process. That's right, I said

it! Open up one of those themes from the free directory and start reading, learning, and applying the code you find there to themes that you create for yourself, your friends, or your clients.

Typically, it would be a big no-no to tell you to copy work from another person; however, that is *exactly* the spirit of the WordPress community, and the spirit of open source and the GPL (General Public License) that WordPress (and its themes and plugins) is released under (see the earlier “Open source and the GPL” sidebar). In fact, Chapters 10 and 11 take you through the steps of doing just that; Chapter 10 walks you through the (free) default WordPress theme called Twenty Fifteen, and Chapter 11 dissects the template files. Chapters 12 and 14 take you through template tags, and how to customize their look and design with CSS and HTML coding.

## Checking Out Premium WordPress Themes and Frameworks

Not all WordPress themes are created equal; that is to say, not every WordPress theme you encounter is free. GPL-licensed software, like WordPress and related plugins and themes, is not always free, as in price. Several years ago, a premium theme market emerged within the WordPress community by developers and designers who offer high-quality themes and provide ongoing support for the use of those themes for a price that ranges anywhere from \$50–\$300 each, depending on which theme you use.

Many of the premium-theme providers offer special themes that they’ve termed *frameworks*. Frameworks are essentially WordPress themes with all the built-in features and functionality, and they are optimized and coded to act as a parent theme, making WordPress theme development quicker and allowing you to use it to create an unlimited number of child themes. I cover parent and child themes in depth in Chapter 13; you can head there now to read more about those topics, or file the terms “parent/child themes” in the back of your mind, knowing that you revisit those concepts later in this book.

Premium themes and frameworks offer you an easy way to help yourself, your friends, and your clients design a nice-looking website quickly, using WordPress for a lower cost than it would take to hire someone to design and build a custom theme for you. However, premium themes have their limitations as well; because someone else built the theme, you are limited to the features and functions that the developer/designer of the theme included. If you want to add more features, it may mean digging into the code of the template files and making some adjustments. (In Chapters 10–12, you find information on how to tweak existing themes.)



Sometimes it's better to code your own theme from scratch, simply because it's easier for you to know your own code than it is to get to know someone else's way of doing things. After you become comfortable designing your own theme, the choice is yours to make.

You can find a very nice selection of premium themes on the WordPress website, listed at <https://wordpress.org/themes/commercial/>. Here are a few popular theme frameworks on the market today:

- ✓ **iThemes Builder:** <https://ithemes.com/purchase/builder-theme>
- ✓ **StudioPress:** [www.studiopress.com/](http://www.studiopress.com/)
- ✓ **Hybrid:** <https://wordpress.org/extend/themes/hybrid>

## Getting Your Site Up and Running

Before you can even think about building themes and designing with WordPress, you have to lay the foundation. Doing so doesn't take very long, but it involves setting up the right environment and gathering some essential tools to get the job done right. Setting up WordPress correctly the first time is important because having to set it up all over again after you've already begun using it is quite a hassle. In the first part of this book, you'll find the steps to get WordPress up and running, including:

- ✓ Registering a domain (see Chapter 2)
- ✓ Obtaining a web host (see Chapter 2)
- ✓ Installing WordPress on your web server (see Chapter 3)

Then after you're up and running, be sure to check out Chapter 4 for the low-down on managing content and Chapter 5 for more about FTP and different web browsers.

# Understanding WordPress Requirements

---

## *In This Chapter*

- ▶ Registering a domain name
  - ▶ Exploring web-hosting environments
  - ▶ Understanding bandwidth and hard drive space needs
- 

**T**his chapter introduces you to the basic requirements that need to be in place before you can install WordPress on a web server (as described in Chapter 3). I take you through the mechanics of registering a domain name, exploring web-hosting environments, and determining a plan for different WordPress projects in terms of bandwidth needs and hard drive space options.

If you design WordPress websites for several clients, each client has unique needs for web hosting, depending on the type, scope, and breadth of the website it runs. This chapter helps you take all those factors into consideration to determine the type of hosting environment needed for the job.

## *Establishing Your Domain*

You've read the hype. You've heard the rumors. You've seen the flashy websites powered by WordPress. But where do you start?

The first steps toward installing and setting up a WordPress website are deciding on a domain name and then purchasing the registration of that name through a *domain registrar*, a company that sells and administers domain names. A *domain name* is the *unique* web address that you type in a web browser's address bar to visit a website — for example, `wordpress.org` and `google.com`.

## Domain names: Do you own or rent?

In reality, when you “buy” a domain name, you don’t really own it. Rather, you purchase the right to use that domain name for the period of time specified in your order. You can register a domain name for one to ten years. Be aware, however, that if you don’t renew the domain name when your registration period ends, you lose it — and most often, you lose it right

away to someone who preys on abandoned or expired domain names. Some people keep a close watch on expiring domain names, and as soon as the buying window opens, they snap up the names and use them for their own websites, hoping to take advantage of the popularity that the previous owners worked so hard to attain for those domains.



I emphasize *unique* because no two domain names can be the same. If someone else has registered the domain name you want, you can’t have it. With that in mind, you may need to take a bit of time to find a domain that isn’t already in use.

### *Understanding domain name extensions*

When registering a domain name, consider the extension that you want. The .com, .net, .org, .info, .tv (for video), .fm (for audio), .co, or .biz extension that you see tagged on to the end of any domain name is the *top-level domain (TLD)* extension. A top-level domain is the main domain name of a website, whereas a second level is a subdomain, or subdirectory, within the main domain. For example the main, top-level domain for Wiley is `wiley.com`; whereas Wiley’s Online Library is located on a second-level domain: `onlinelibrary.wiley.com`. When you register your domain name, you also choose the extension you want for your domain (as long as it’s available, that is).

A word to the wise here: Just because you register your domain as a .com doesn’t mean that someone else doesn’t, or can’t, own the very same domain name with a .net. So if you register `MyDogHasFleas.com` and it becomes a hugely popular site among readers with dogs that have fleas, someone else can come along and register `MyDogHasFleas.net` — and run a similar site in the hope of riding the coattails of your website’s popularity and readership.



You can register your domain name with all available extensions if you want to avert this problem. My personal website, for example, has the domain name `http://lisasabin-wilson.com`; however, I also own `http://lisasabin-wilson.net`.

### *Considering the cost of a domain name*

Registering a domain costs you anywhere from \$10 to \$30 per year, depending on what service you use for a registrar and what options (such as privacy