



Quick answers to common problems

WordPress 3 Cookbook

Over 100 recipes to help you enhance your WordPress site!

Ric Shreves
Jean-Baptiste Jung

[PACKT] open source[®]
community experience distilled
PUBLISHING

WordPress 3 Cookbook

Over 100 recipes to help you enhance your
WordPress site!

Ric Shreves

Jean-Baptiste Jung



BIRMINGHAM - MUMBAI

WordPress 3 Cookbook

Copyright © 2011 Packt Publishing

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the publisher, except in the case of brief quotations embedded in critical articles or reviews.

Every effort has been made in the preparation of this book to ensure the accuracy of the information presented. However, the information contained in this book is sold without warranty, either express or implied. Neither the author, nor Packt Publishing, and its dealers and distributors will be held liable for any damages caused or alleged to be caused directly or indirectly by this book.

Packt Publishing has endeavored to provide trademark information about all of the companies and products mentioned in this book by the appropriate use of capitals. However, Packt Publishing cannot guarantee the accuracy of this information.

First published: July 2009

Second published: December 2011

Production Reference: 1071211

Livery Place
35 Livery Street
Birmingham B3 2PB, UK.

ISBN 978-1-84951-460-6

www.packtpub.com

Cover Image by J.Blaminsky (jarek@jblaminsky.com)

Credits

Author	Project Coordinator
Ric Shreves	Kushal Bhardwaj
Jean-Baptiste Jung	
	Proofreader
	Aaron Nash
Reviewers	
Shameer C	
John Eckman	Indexer
	Rekha Nair
Acquisition Editor	Production Coordinator
Usha Iyer	ArvindKumar Gupta
Development Editor	Cover Work
Susmita Panda	ArvindKumar Gupta
Technical Editor	
Merwine Machado	

About the Author

Ric Shreves is one of the founding partners of water&stone, an interactive agency that specialises in open source web content management systems. He has been building CMS websites for over 10 years, and during that time, he has been involved in projects for a number of global brands, including BASF, BearingPoint, Colgate-Palmolive, Tesco Lotus, CBRichard Ellis, Mercy Corps, and many others. He has published a number of books on open source in general and on open source content management systems in particular. Past work includes books on Mambo, Drupal, Joomla!, and Ubuntu. This is his first book on the WordPress CMS.

Ric lives in Bali with his wife and business partner, Nalisa.

I would like to thank Packt Publishing for giving me the opportunity to work on this WordPress title. With the advent of WordPress 3, the system has come into its own as a CMS and I am proud to be able to do something to help users get the most out of the system.

I would also like to thank my partner, Nalisa, for her patience and support during the writing of this text.

About the Reviewer

Shameer C is a software engineer and database administrator from Kerala, India. He started his career as a web developer after completing B-tech in computer science. He has experience in various programming languages such as PHP, Javascript, HTML5, Ruby, and so on. On the database side he mainly uses MySQL. He has contributed to Aura PHP, which is an enterprise-level php 5.3 framework and customized Toto, a flat file blogging engine in ruby. Occasionally he writes articles on his blog at <http://shameerc.com>. You can reach him at [@shameerc](https://twitter.com/shameerc).

Shameer is currently working for Qburst Technologies, a company with expertise in both mobile and web application development on various platforms.

I would like to thank Packt Publishing for giving me an opportunity to work on their project, and all my family members, friends, especially Hari K T, for inspiring and encouraging me throughout my career.

John Eckman has more than a decade of experience in designing and building web applications for organizations ranging from small non-profit organizations to Fortune 500 enterprises. Currently a Digital Strategist with ISITE Design, he often works with clients to develop and execute complex web applications, but not exclusively with open source platforms.

John received a Bachelor of Arts from Boston University, a Masters in Information Systems from Northeastern University, and a Ph.D. from the University of Washington, Seattle. He is an active contributor to a number of open source communities, a founding organizer of WordCamp Boston 2010 and 2011, and the lead developer of the WPBook plugin for WordPress. He blogs at www.openparenthesis.org and tweets as @jeckman.

I'd like to thank the broader WordPress community – users and developers – without whom none of this would be possible.

www.PacktPub.com

Support files, eBooks, discount offers and more

You might want to visit www.PacktPub.com for support files and downloads related to your book.

Did you know that Packt offers eBook versions of every book published, with PDF and ePub files available? You can upgrade to the eBook version at www.PacktPub.com and as a print book customer, you are entitled to a discount on the eBook copy. Get in touch with us at service@packtpub.com for more details.

At www.PacktPub.com, you can also read a collection of free technical articles, sign up for a range of free newsletters and receive exclusive discounts and offers on Packt books and eBooks.



<http://PacktLib.PacktPub.com>

Do you need instant solutions to your IT questions? PacktLib is Packt's online digital book library. Here, you can access, read and search across Packt's entire library of books.

Why Subscribe?

- ▶ Fully searchable across every book published by Packt
- ▶ Copy and paste, print and bookmark content
- ▶ On demand and accessible via web browser

Free Access for Packt account holders

If you have an account with Packt at www.PacktPub.com, you can use this to access PacktLib today and view nine entirely free books. Simply use your login credentials for immediate access.

Table of Contents

Preface	1
Chapter 1: The WordPress Cook's Tools	5
Introduction	5
Managing media files with the Media Library	6
Modifying theme files with the built-in Theme Editor	10
Modifying plugin files with the built-in Plugin Editor	13
Managing users	14
Gaining control over user roles and permissions	18
Setting up editorial workflow	21
Importing and exporting content	24
Installing and using Jetpack	26
Enabling the toolbar for users and administrators	29
Chapter 2: Installing and Customizing Themes	31
Introduction	32
Installing a theme	32
Creating a child theme	36
Modifying your theme colors	38
Modifying your theme fonts	40
Creating and integrating a favicon	43
Adding a custom logo	45
Customizing the login page	48
Using conditional tags to control content display	52
Using multiple page templates	56
Using post formats	59
Creating a custom 404 error page	63
Using a static page as a homepage	64
Adding custom styles to your theme	66
Making your site mobile device friendly	67

Table of Contents

Chapter 3: Working with Plugins and Widgets	71
Introduction	71
Installing plugins	72
Installing widgets	77
Adding widget areas to your themes	79
Creating your own widget	82
Modifying core widgets	85
Displaying tabs on your sidebar	92
Using conditional tags to control widget display	94
Displaying widgets inside of posts and pages	97
Chapter 4: Customizing Content Display	101
Introduction	102
Accessing posts within the WordPress loop	103
Retrieving posts from a specific category	105
Getting a specific number of posts	107
Retrieving posts by date	108
Displaying posts published today	110
Displaying posts published exactly one year ago	111
Using multiple loops	112
Accessing post data outside of the WordPress loop	114
Accessing permalinks outside the loop	118
Displaying thumbnails on your homepage	119
Alternating background colors on post lists	121
Displaying posts in two columns	123
Save time by using WordPress shortcodes	125
Enabling the use of shortcodes in widgets	126
Adding notes to your posts	128
Adding tags to your pages	130
Chapter 5: Building Interactivity and Community	133
Introduction	134
Improving navigation with a paginator	134
Highlighting searched text in search results	137
Integrating a forum into your site	139
Adding social bookmarking buttons to your theme	144
Aggregating RSS content	146
Integrating Feedburner into your site	150
Displaying a retweet button on your posts	152
Getting more comments with the Subscribe to Comments Reloaded plugin	155
Remove the nofollow attribute to motivate users to leave comments	156
Provide recognition to your top contributors	158

Table of Contents

Displaying author-related information on posts	160
Displaying the author's avatar on posts	163
Allowing multiple authors on posts	164
Displaying a list of all of the authors	166
Creating community with BuddyPress	169
Adding a simple gallery to your site	174
Bringing Facebook functionality into your site	178
Integrating a Twitter stream into your site	180
Chapter 6: Implementing Online Sales and Advertising	187
Introduction	187
Integrating Adsense	188
Displaying ads anywhere in your posts by using WordPress shortcodes	192
Managing ad visibility	194
Inserting ads into your RSS feeds	198
Showing your site stats to find advertisers	200
Enhancing your Advertise page by adding Paypal subscriptions	206
Managing your advertising space with an ad manager	207
Adding a shopping cart to your site	213
Chapter 7: Making an SEO Friendly Site	217
Introduction	217
Making your site visible to search engines	218
Optimizing your permalinks for SEO	220
Migrating your permalinks safely	224
Adding redirects for changed URLs	225
Creating meta descriptions for your posts and pages	226
Avoiding duplicate content with a robots.txt file	229
Pinging third-party services	231
Enhancing site indexing with XML sitemaps	233
Using Google's and Bing's Webmaster Tools	237
Improving SEO with the SEO Ultimate plugin	241
Chapter 8: Enhancing Usability and Accessibility	245
Introduction	245
Creating print-friendly pages	246
Extending WordPress search	249
Enhancing navigation with breadcrumbs	252
Stopping SPAM	256
Optimizing performance with cache management	258
Displaying a login form	262
Displaying related posts	265
Creating a Featured Posts block	268

Table of Contents

Adding a sitemap for your site visitors	271
Creating a better tag cloud	274
Adding lightboxes for your photos	276
Chapter 9: Managing Maintenance and Improving Security	279
Introduction	280
Creating a manual backup of your database	280
Creating an automatic backup with WP DB Backup	282
Restoring a MySQL backup	284
Creating backups of your WordPress files	286
Removing the WordPress version information from your theme files	287
Getting rid of the Administrator account	288
Protecting against brute force log in attempts	289
Denying access to unneeded hints	290
Adding another layer of protection with HTTP authentication	292
Restricting access to the wp-admin directory by using the IP address	294
Testing your site security	296
Reducing SPAM by selectively blocking comment posting	301
Index	303

Preface

WordPress 3 Cookbook will help you get the most from version 3 of the popular WordPress CMS. The book is focused on showing how to achieve the most commonly desired system modifications and customizations, with an emphasis on enhancing themes and content presentation. Other chapters look at the practicalities of owning a WordPress site, including SEO, advertising, online sales, and site maintenance.

What this book covers

Chapter 1, The WordPress Cook's Tools, explains the basic tools and options that are built into the default WordPress CMS and discusses simple enhancements that can extend the base functionality.

Chapter 2, Installing and Customizing Themes, covers how to install and customize themes for your WordPress site. The chapter covers important concepts such as creating child themes and how to use conditional tags to control theme output.

Chapter 3, Working with Plugins and Widgets, dives into the WordPress CMS plugin system. The contents cover how to install new plugins, as well as how to customize plugins and widgets.

Chapter 4, Customizing Content Display, deals with issues related to WordPress themes. The chapter includes both the basics of how to modify your existing theme, and more advanced theming topics that give you the ability to customize any WordPress theme.

Chapter 5, Building Interactivity and Community, examines how you can use social media and social sharing tools to increase participation on your site and help bring your content to the attention of potential new visitors.

Chapter 6, Implementing Online Sales and Advertising, we look at how to implement advertising and online sales inside the WordPress CMS. Topics range from basics like adding Google AdSense, to more advanced topics like adding a shopping cart and PayPal payment.

Chapter 7, Making an SEO Friendly Site, takes on the topic of search engine optimization. The recipes show how to enhance your site's SEO and how to improve your site's chances of ranking well on the search engines.

Chapter 8, Enhancing Usability and Accessibility, covers accessibility and usability issues, with recipes that show how to make your site more accessible and usable by a wider range of visitors.

Chapter 9, Managing Maintenance and Improving Security, discusses the issues related to owning a WordPress site, including how to manage updates and upgrades and improve WordPress CMS security.

What you need for this book

Technically, all you need to have in order to benefit from this book is access to an installation of Version 3 of the WordPress open source CMS. That said, you will also find it useful to have the following:

- ▶ Your favorite code editor, whether it's a basic text editor or something such as Dreamweaver
- ▶ An FTP program, or other means of moving files to and from the server where your WordPress installation is located

Who this book is for

The WordPress 3 Cookbook was intended for a wide audience of potential WordPress users, from casual website owners who simply want to know how to do a bit more with their site to developers who are looking for tried and true solutions to common problems.

Conventions

In this book, you will find a number of styles of text that distinguish between different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text are shown as follows: "The Breadcrumbs Plus plugin enables the `breadcrumbs_plus()` function."

A block of code is set as follows:

```
/**Time to register the widget*/  
  
add_action( 'widgets_init', create_function('', 'return  
register_widget("Meta_Mod");') );  
  
?>
```

New terms and important words are shown in bold. Words that you see on the screen, in menus or dialog boxes for example, appear in the text like this: "Click on the **Save** button".



Warnings or important notes appear in a box like this.



Tips and tricks appear like this.

Reader feedback

Feedback from our readers is always welcome. Let us know what you think about this book—what you liked or may have disliked. Reader feedback is important for us to develop titles that you really get the most out of.

To send us general feedback, simply send an e-mail to feedback@packtpub.com, and mention the book title via the subject of your message.

If there is a book that you need and would like to see us publish, please send us a note in the **SUGGEST A TITLE** form on www.packtpub.com or e-mail suggest@packtpub.com.

If there is a topic that you have expertise in and you are interested in either writing or contributing to a book, see our author guide on www.packtpub.com/authors.

Customer support

Now that you are the proud owner of a Packt book, we have a number of things to help you to get the most from your purchase.

Downloading the example code

You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com>. If you purchased this book elsewhere, you can visit <http://www.PacktPub.com/support> and register to have the files e-mailed directly to you.

Errata

Although we have taken every care to ensure the accuracy of our content, mistakes do happen. If you find a mistake in one of our books—maybe a mistake in the text or the code—we would be grateful if you would report this to us. By doing so, you can save other readers from frustration and help us improve subsequent versions of this book. If you find any errata, please report them by visiting <http://www.packtpub.com/support>, selecting your book, clicking on the **errata submission form** link, and entering the details of your errata. Once your errata are verified, your submission will be accepted and the errata will be uploaded on our website, or added to any list of existing errata, under the Errata section of that title. Any existing errata can be viewed by selecting your title from <http://www.packtpub.com/support>.

Piracy

Piracy of copyright material on the Internet is an ongoing problem across all media. At Packt, we take the protection of our copyright and licenses very seriously. If you come across any illegal copies of our works, in any form, on the Internet, please provide us with the location address or website name immediately so that we can pursue a remedy.

Please contact us at copyright@packtpub.com with a link to the suspected pirated material.

We appreciate your help in protecting our authors, and our ability to bring you valuable content.

Questions

You can contact us at questions@packtpub.com if you are having a problem with any aspect of the book, and we will do our best to address it.

1

The WordPress Cook's Tools

In this chapter you will learn about:

- ▶ Managing media files with the Media Library
- ▶ Modifying theme files with the built-in Theme Editor
- ▶ Modifying plugin files with the built-in Plugin Editor
- ▶ Managing users
- ▶ Gaining control over user roles and permissions
- ▶ Setting up editorial workflow
- ▶ Importing and exporting content
- ▶ Installing and using Jetpack
- ▶ Enabling the toolbar for users and administrators

Introduction

This chapter serves as an introduction to the basic tools and features that are part of your WordPress administration system. All of the topics discussed in this chapter relate to fundamental functionality needed to use the WordPress CMS. Most of the chapter is focused on tools that are included in the default WordPress system.

Understanding the tools discussed in this chapter is essential to understand how to get the most out of your WordPress site. There's a lot you can do with WordPress, even without installing additional plugins and custom themes. In this chapter, we look at how the basic tools enable you to work with users, set permissions, and workflow, and how you can even modify plugins and themes – all from within the WordPress administration interface and without the need for specialized or external tools.

Managing media files with the Media Library

WordPress includes a tool designed to help you deal with the media files for your website. The tool, called appropriately the Media Library, allows you to view and manage all your media files (images, videos, and so on) in one place.

Once you've added files to your Media Library, they are available to you as you work with the posts and pages of your site. The key advantage of using the Library is that you can work with images in bulk, uploading or deleting multiple images at one time.

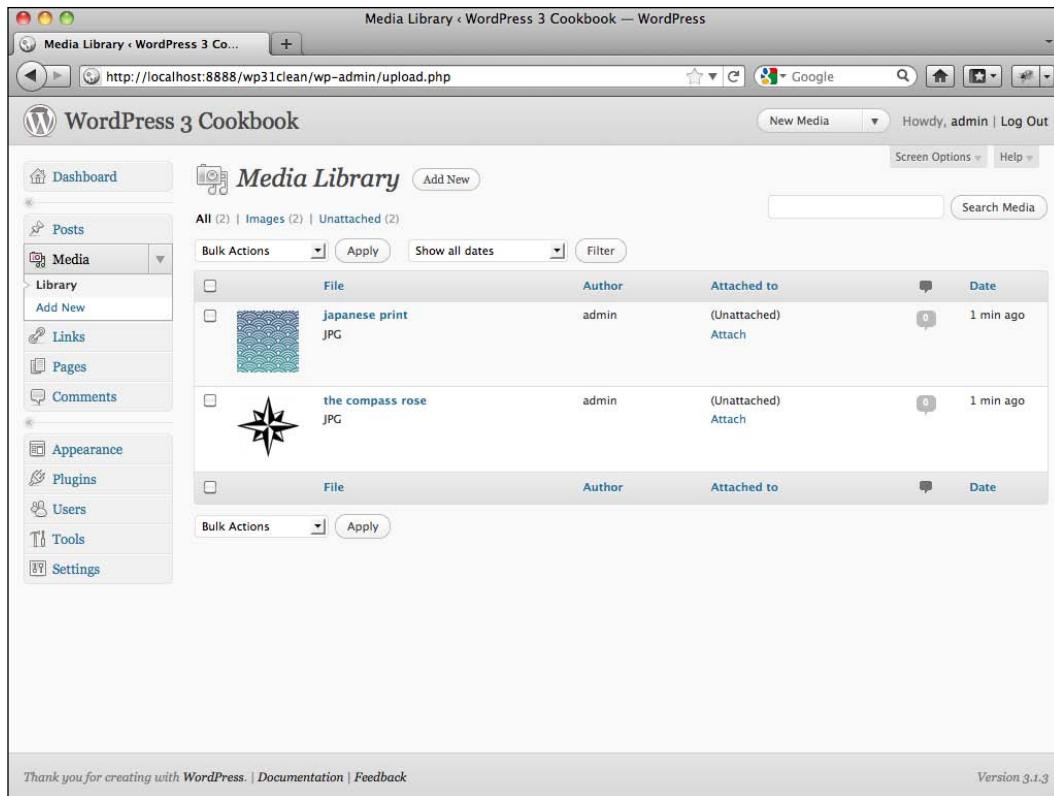
In this recipe, we cover the basics of working with this useful tool, including adding, editing, and deleting files.

Getting ready

Everything you need for this recipe is located inside the dashboard of your WordPress site.

How to do it...

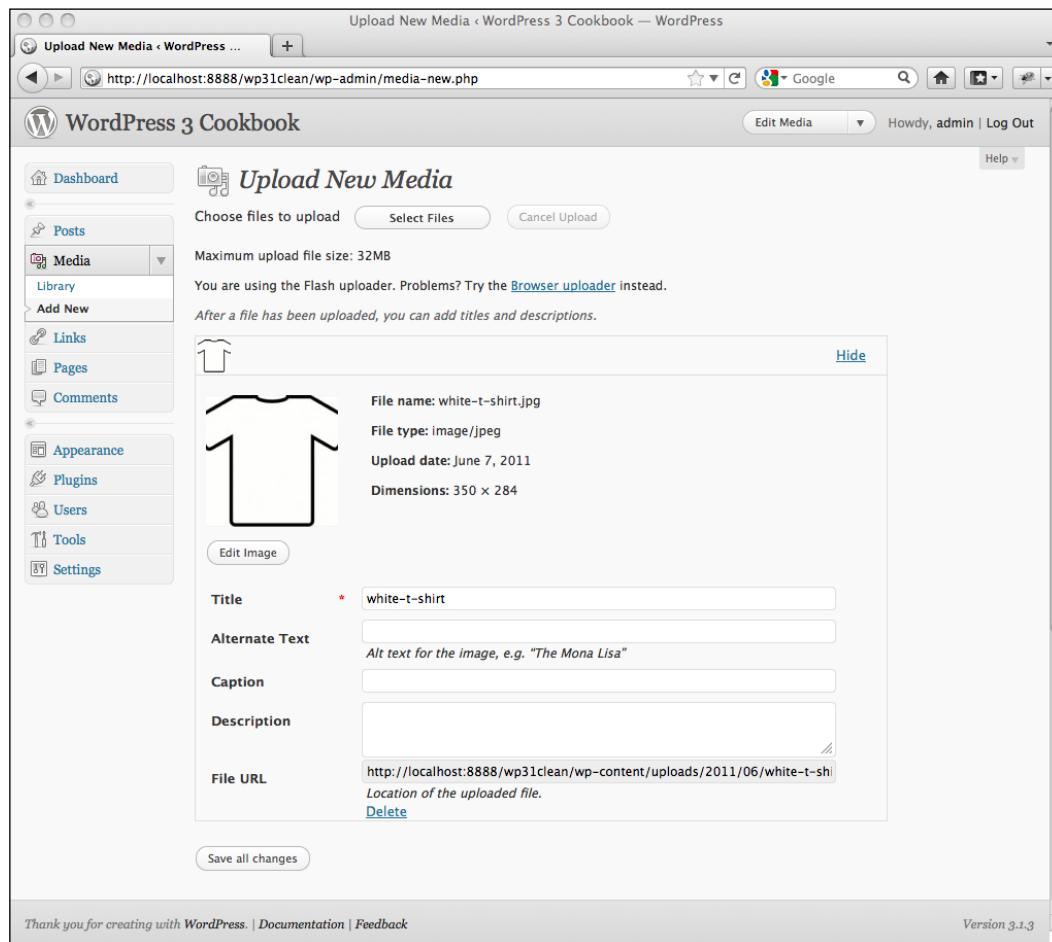
1. Log in to your WordPress **Dashboard**.
2. Click on the **Media** menu.
3. To view the files in the Library, click on the **Library** option and you'll see the existing files, if any. The following screenshot shows you a typical view:



4. To add a new media file to your **Media Library**, click on **Add New**.
5. On the screen that loads in your browser, click on the **Select Files** button and the system will show you a pop-up that lets you to select the media files from your hard drive.
6. Once you locate the file you want, select it, then click the **Upload** button and the system will add the file to the **Media Library**. As it uploads, you will see a status bar showing you the progress.

The WordPress Cook's Tools —

7. Once the upload is complete you can view the file in the library and edit the details, if you so desire. The following screenshot shows you the **Upload New Media** screen, where you can edit the image info. Once you finish with your edits, click on **Save all changes**.





There are two uploaders available: the Flash uploader and the Browser uploader. The Flash uploader allows you to select multiple files at once, while the Browser uploader allows you to upload only one file at a time. While the Flash uploader can be faster and more convenient, on some systems you may experience some difficulties using it. If you have any issues with the Flash uploader, simply choose the Browser uploader; it's slower, but it's very reliable.

To delete files from the **Media Library**, carry out the following steps:

1. When inside the **Media Library**, simply hover the mouse over an item and the **Edit**, **Delete Permanently**, and **View** buttons will appear.
2. Click on **Delete Permanently** and the system will prompt you for confirmation.
3. If you wish to remove the file, click on **OK** in the pop-up and the system will delete the file.

For bulk media deletion, carry out the following steps:

1. Go to the **Media Library**.
2. Select the checkboxes immediately to the left of the files you wish to delete.
3. Select the option **Delete Permanently** from the **Bulk Actions** drop-down list (located above the list of files)
4. Click on the **Apply** button.

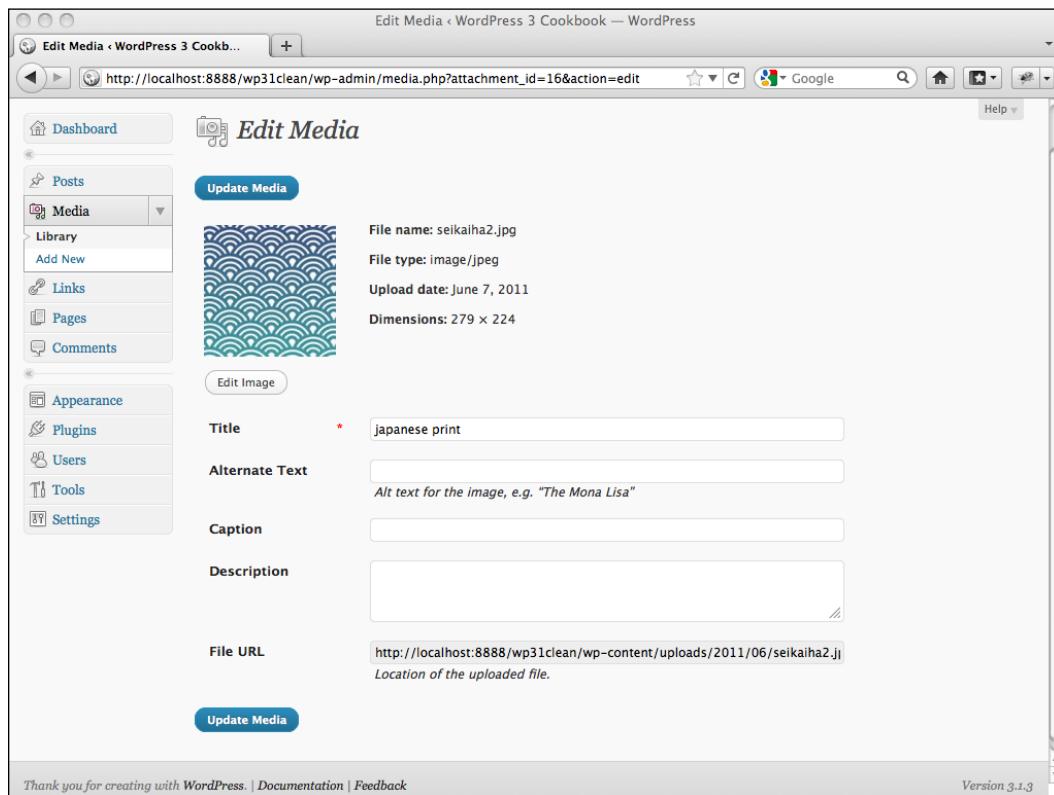


Be careful – when using bulk deletion, there is no confirmation dialogue! Once you click the **Apply** button the system will immediately delete all the files you have selected.

Editing files in the **Media Library** is limited to modifying the meta information associated with the file; you cannot actually edit the media file itself. To edit existing file's information, carry out the following steps:

1. Access the **Media Library**.
2. Hover the mouse over the item you'd like to edit and click on the **Edit** link that appears.

3. In the page that opens, you can define the file settings. The following screenshot shows the **Edit Media** page:



4. Click on the **Update Media** button when you're done and the system will save your changes.

Modifying theme files with the built-in Theme Editor

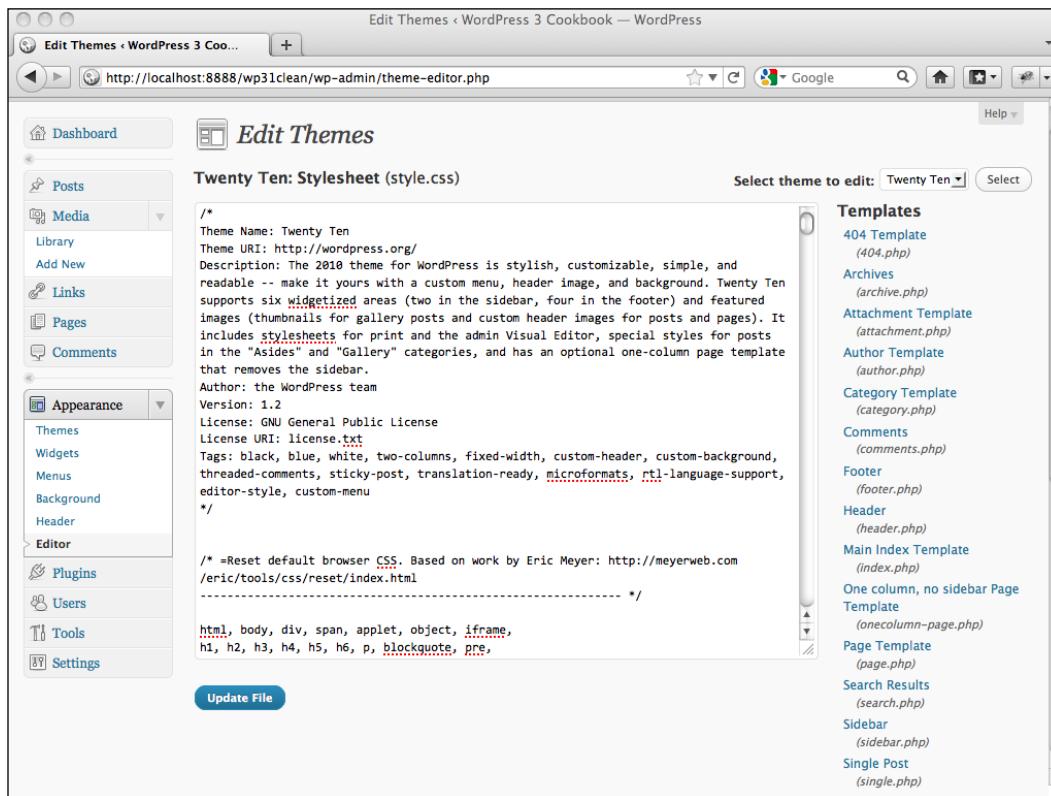
As you are probably aware, the appearance of your WordPress site is dictated by the theme you use. Themes themselves are comprised of a number of files, typically a mix of PHP and CSS files. Editing the files in your theme can be handled in one of two ways: either with a third party editor, or with WordPress' built-in Theme Editor. In this recipe, we introduce the basics of working with the Theme Editor.

Getting ready

Everything you need to complete this recipe is located inside your WordPress dashboard.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the option **Editor**.
4. By default, the system will load one of the files from the active theme, as seen in the following screenshot. If you wish to change the view to edit a different file, simply click on the name of the file in the right hand column.
5. Make your changes.
6. When you're done, click on the **Update File** button to save your modifications.



How it works...

The Theme Editor simply provides an editing interface for the files in the active theme. You can change to edit the files of a different theme by selecting the theme name from the combo box labeled **Select theme to edit**.



Be cautious! Remember that when you edit a theme file in WordPress Theme Editor, you are editing the real file on the server. Once you press the **Update File** button, the file is saved and the previous version is erased. This is an issue of particular importance where the theme you are editing is the active theme on a live site.

There's more...

Although the Theme Editor is very convenient, you have to be careful with it.



Depending on your web hosting environment, you may experience problems using the Theme Editor. Accordingly, it is essential that you have a back up of your WordPress files before you begin working.

- ▶ Best practice is to create a backup of your theme before editing. If you have made a modification and later would like to undo the modification, you need to have a backup of the previous version of the file.
- ▶ Use the Theme Editor only if you're sure about what you're doing. If you're editing your current theme and make a programming error (for example, a PHP syntax error), it is possible that your site will stop functioning until you correct the error.
- ▶ Sometimes, a programming mistake can even result in you losing access to the Theme Editor. While this is quite a rare case (it mostly happens when you make a code mistake in the `functions.php` file), the problem is serious. You will most likely need to have a backup of your theme (as well as an FTP connection to your server) to sort out this problem.

See also

- ▶ *Chapter 2, Installing and Customizing Themes*, covers WordPress themes in more detail

Modifying plugin files with the built-in Plugin Editor

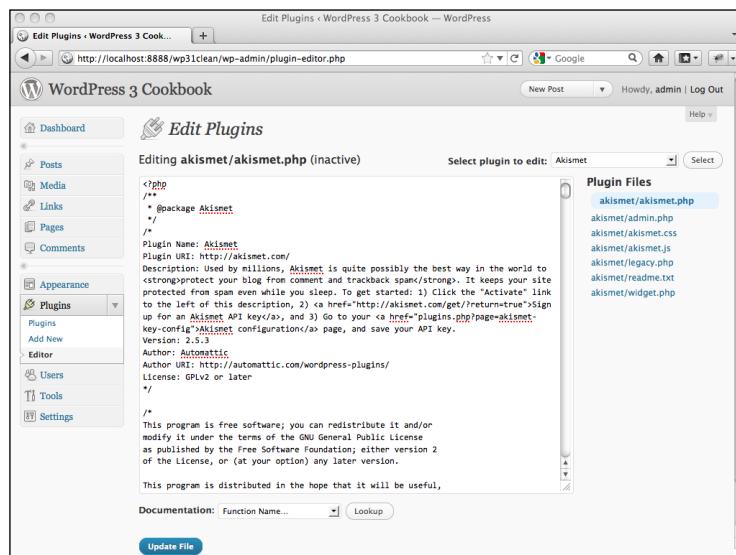
Plugins are a vital part of your WordPress site, adding much of the key functionality to your site. Just as we saw with the Theme Editor in the previous recipe, you can edit plugin files directly from within the WordPress dashboard, without the need of a third party editor. In this recipe, we introduce the basics of working with the Plugin Editor.

Getting ready

Everything you need to complete this recipe is located inside your WordPress dashboard.

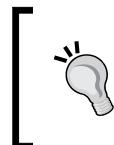
How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Plugins** menu.
3. Click on the option **Editor**.
4. By default, the system will display one of the files from the first available plugin, as seen in the next screenshot. If you wish to change the view to edit a different file for the plugin, simply click the name of the file in the right hand column. To change to a different plugin, select one from the combo box labeled **Select plugin to edit**.
5. Make your changes.
6. When you're done, click on the **Update File** button to save your modifications.



How it works...

The built-in Plugin Editor works in exactly the same way as the Theme Editor. When a file is modified and saved, the modifications are written directly in the source file—there's no copy or backup.



The system provides a link to documentation for the plugin. If you look below the editing window in the previous screenshot, you can see a combo box labeled **Documentation**. Select the appropriate file from the list then click **Lookup** to view the documentation.

There's more...

The Plugin Editor is a very useful tool; however, it can also create problems if used improperly.

- ▶ Unless you're very sure about what you're doing, always deactivate the plugin before editing
- ▶ Always have a backup of the plugin you're editing, as the Plugin Editor does not save any revisions
- ▶ If—after editing a plugin—your site does not function correctly, deactivate the plugin, and upload your plugin files backup to your `wp-content/plugins/yourplugin` directory

See also

- ▶ *Chapter 3, Working with Plugins and Widgets*, covers WordPress plugins in more detail

Managing users

All WordPress sites include a combination of public and registered users. Registered users can be assigned to various roles that give access to different features of the site. WordPress includes a feature that enables you to manage the registered users of your website the Users Manager, as shown in the following screenshot:

Username	Name	E-mail	Role	Posts
ric	admin	ric@ricshreves.net	Administrator	2
bob user	bob user	bob@yoursite.com	Subscriber	0
legrandfromage	L. Grand Fromage	support@waterandstone.com	Author	0

In this recipe we introduce the Users Manager and the basics of creating, editing, and deleting registered users in WordPress.

Getting ready

Everything you need for this recipe can be found in the WordPress dashboard.

How to do it...

WordPress users manager allows you to add, edit, or delete user accounts. Let's learn how to do this in detail.

In order to add a new user, carry out the following steps:

1. Log in to the WordPress **Dashboard**.
2. Click on the menu labeled **Users**. The Users Manager, as shown in the previous screenshot, will load.
3. Click on **Add New**.

4. The **Add New User** screen is shown in the following screenshot. The only required fields are **Username**, **E-mail**, and **Password** (which must be entered twice). However, you should also check the **Role** control and make sure you are setting the right access privileges for the user.
5. Once done, click on the **Add New User** button.

The screenshot shows the 'Add New User' page in the WordPress 3.1.3 admin interface. The left sidebar has a 'Users' menu item selected. The main form fields are:

- Username (required)
- E-mail (required)
- First Name
- Last Name
- Website
- Password (twice, required)

A 'Strength indicator' bar shows the password's strength. A hint below it says: "Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers and symbols like ! * ? \$ % ^ &)."

Below the form are checkboxes for "Send Password?" and "Send this password to the new user by email.", and a "Role" dropdown set to "Subscriber". At the bottom is a blue "Add New User" button.

In order to edit an existing user account, carry out the following steps:

1. Access the **Users** menu, as explained in the previous steps.
2. Find the name of the user you wish to edit and hover the mouse over the name; the **Edit** and **Delete** buttons will be displayed.
3. Click on the **Edit** button.
4. On the next page, as shown in the next screenshot, you can edit the following information about the user:
 - Enable/Disable **Visual Editor**
 - Admin color scheme**
 - Enable/Disable **Keyboard Shortcuts**
 - User **Role**

- First Name, Last Name, and Nickname**
- How the user name should be publicly displayed
- Contact info**
- User bio
- Password

5. Make the changes you desire.
6. Click on the **Update User** button to save your modifications.

The screenshot shows the 'Edit User' page in the WordPress admin interface. The left sidebar has 'Users' selected under 'Appearance'. The main form is titled 'Edit User' and contains the following sections:

- Personal Options**: Includes 'Visual Editor' (checkbox), 'Admin Color Scheme' (radio buttons for Blue or Gray), 'Keyboard Shortcuts' (checkboxes for comment moderation, viewing site, dashboard), and 'Name' fields for 'Username' (bobuser), 'Role' (Subscriber), 'First Name' (bob), 'Last Name' (user), 'Nickname (required)' (bobuser), and 'Display name publicly as' (bobuser).
- Contact Info**: Fields for 'E-mail (required)' (bob@yoursite.com), 'Website', 'AIM', 'Yahoo IM', and 'Jabber / Google Talk'.
- About the user**: A large text area labeled 'Biographical Info' with the placeholder text: "Share a little biographical information to fill out your profile. This may be shown publicly."
- New Password**: Fields for 'New Password' and 'Type your new password again'. A note says: "If you would like to change the password type a new one. Otherwise leave this blank." A 'Strength indicator' bar is present with the hint: "Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers and symbols like ! ? \$ % & &".
- Buttons**: A blue 'Update User' button at the bottom left and a 'Cancel' button at the bottom right.

In order to delete a user's account, carry out the following steps:

1. Access the Users Manager, as discussed previously.
2. Find the user you'd like to delete (a mini search engine is included on the top right of the page) and place the mouse cursor over his or her name. The **Edit** and **Delete** button will appear.
3. Click on the **Delete** button.
4. The system will prompt you to choose between deleting the user and all the content which he has provided (posts, comments, and so on) or deleting the user, but transferring the content to another author. Make your selection.
5. Click on **Confirm Deletion**.

[ You can also delete multiple users simultaneously by selecting them on the main users manager page, then choosing **Delete** from the **Bulk Actions** combo box.]

See also

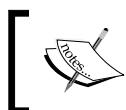
- ▶ *Gaining control over user roles and permissions* section in this chapter
- ▶ *Setting up editorial workflow* section in this chapter

Gaining control over user roles and permissions

User permissions in WordPress are dictated by the role the user is assigned to. By default, the WordPress system includes five roles:

- ▶ Admin
- ▶ Editor
- ▶ Author
- ▶ Contributor
- ▶ Subscriber

The permissions associated with each role are fixed and cannot be edited without the use of a plugin. While there are several plugins that provide this functionality, in this recipe we take you through using the User Role Editor and show you how to both modify existing roles and how to create new ones.



To learn more about the default user roles and their capabilities, visit the WordPress Codex page on the subject at http://codex.wordpress.org/Roles_and_Capabilities



Getting ready

To execute this recipe, you will need to install the User Role Editor plugin. You will need to install this plugin before you can get started. Search for **User Role Editor** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://www.shinephp.com/user-role-editor-wordpress-plugin/>



How to do it...

To edit an existing role, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Users** menu.
3. Click on the options **User Role Editor**.
4. On the page that loads, first select the role you wish to edit from the **Select Role** combo box.
5. Make the changes you desire.
6. Click on the **Update** button to save your changes.

Your changes will now impact all users assigned to the role you have edited.



You cannot modify the Admin role.

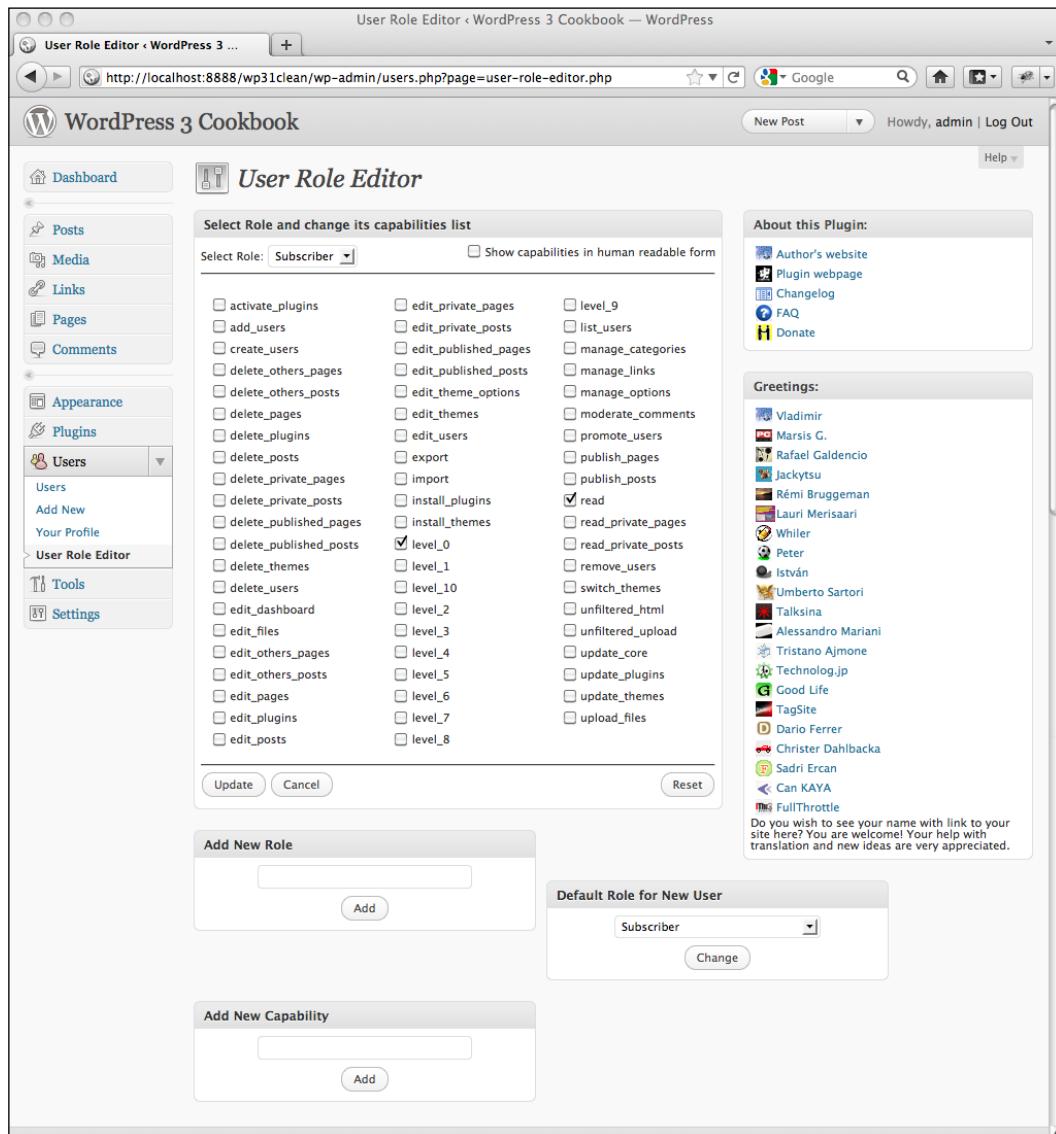


To create a new role, follow these steps:

1. Log in to your WordPress dashboard.
2. Click on the **Users** menu.
3. Click on the options **User Role Editor**.
4. On the page that loads, enter a name for the new role in the **Add New Role** field.
5. Click on the **Add** button.
6. On the page that loads, select the privileges you want to role to enjoy.

The WordPress Cook's Tools

- Click on the **Update** button to save your changes.



[ **]**

The fields marked **level_x** are only applicable to older, version 2 installations of WordPress and should not be used for WordPress 3. Note also that you can make the role capabilities easier to read by clicking on the check box labeled **Show capabilities in human readable form**, at the top right of the page.

How it works...

The plugin edits the default role settings and, by interfacing with the database, allows for creation of new roles. Those of you who wish to explore modifying roles without the use of a plugin will need to explore the WordPress Plugin API at http://codex.wordpress.org/Plugin_API

See also

- ▶ *Managing users* section in this chapter
- ▶ *Setting up editorial workflow* section in this chapter

Setting up editorial workflow

If you allow multiple people to post articles and pages to your site, you will want to stay up to date on what your authors and contributors are doing, and you may want to set up a system that allows posts to be reviewed and edited prior to publication. While you can always manage this manually by sending e-mails back and forth, that approach is far from ideal and can be quite a time-consuming task. A better solution to this problem is found in a plugin called Edit Flow.

Edit Flow is a complex plugin. It not only adds content notifications and review process, but also gives the ability to create custom status posts and groups for your users. There are also features appropriate for an online publications, such as an editorial calendar and a story budget feature. If you do not need all the features, the plugin allows you to only enable those things you require.

In this recipe we look how the Edit Flow plugin can be used to create a manageable editorial workflow for content creation on your site.

Getting ready

To execute this recipe, you will need to install the Edit Flow plugin. You will need to install this plugin before you can get started. Search for **Edit Flow** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://editflow.org/>

How to do it...

Let's start out by configuring Edit Flow for basic article submissions and a review process:

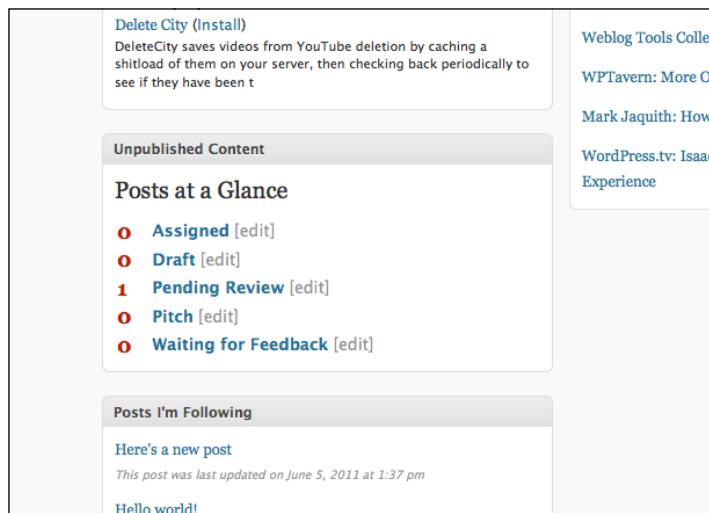
1. Log in to the WordPress **Dashboard**.
2. Click on the new menu named **Edit Flow**.
3. On the configuration screen, de-select **Enable Edit Flow Calendar** and **Enable Story Budget**. Also select the option **Always Notify Admin**.
4. Click on **Save Changes**.

How it works...

You now have a basic editorial review process in place, with notifications being sent to the site admin every time critical actions occur. The plugin has automatically added a set of custom statuses for your posts and pages. Click on the link **Custom Status** to see the list. The plugin has also created new usergroups. View the groups by clicking on the **Usergroups** option in the **Edit Flow** menu.

Taken together, the changes allow a site user (assuming they have permission to create content!) to submit an article for review. Notifications will be sent to higher-level users, who can then log in and comment privately on the content of the posts. When comments are made, the author is notified. This process can be repeated as many times as necessary. Once the post is ready for publication, the status of the post can be changed to published, thereby completing the editorial cycle.

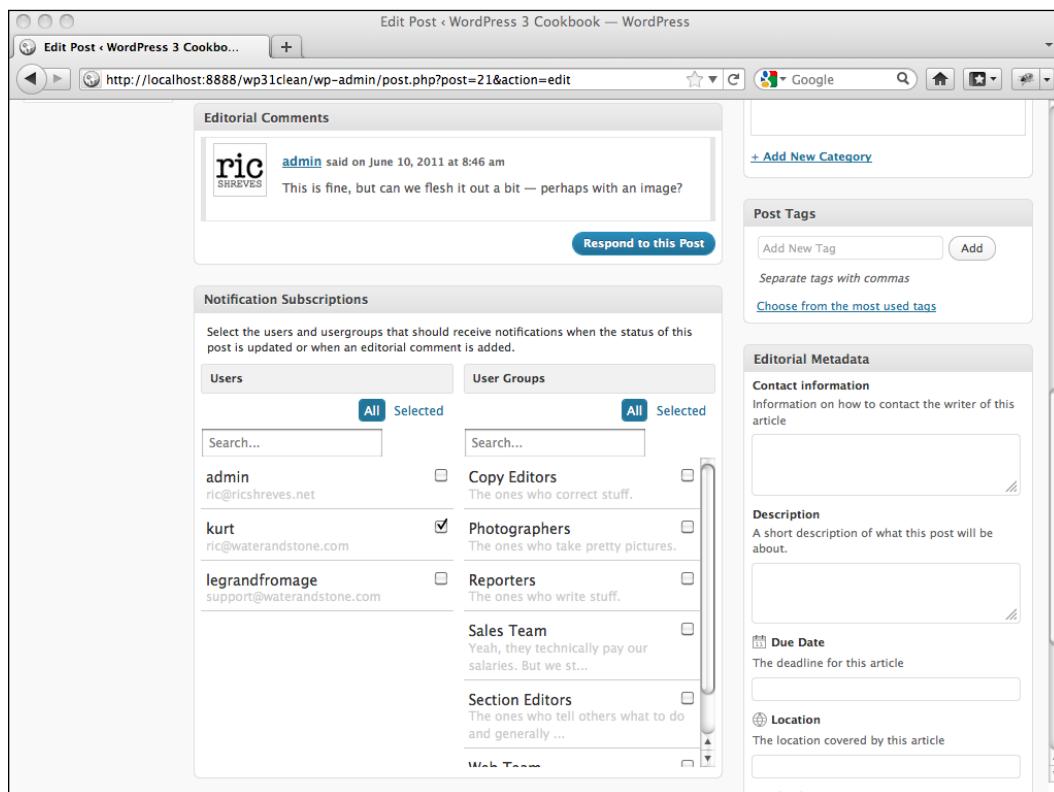
When you log in to the dashboard, a new Edit Flow widget shows you a list of the posts in the editorial process, as shown in the following screenshot:



There's more...

As the next screenshot shows, the editing page for each post now contains several extra field:

- ▶ The **Editorial Comments** field is where the editors can comment privately on the post for the author's benefit.
- ▶ The **Notifications Subscriptions** section allows you to specify who will receive notifications and can avoid your site editors and admins from being bombarded with unwanted e-mails.
- ▶ The **Editorial Metadata** fields give you a way to capture useful information about the post for your internal records. These fields can be customized from the Edit Flow menu.



See also

- ▶ *Managing users* section in this chapter
- ▶ *Gaining control over user roles and permissions* section in this chapter

Importing and exporting content

WordPress features a very useful script to import your posts, comments, and links from another platform to WordPress. The system also allows you to export your current blog content.

Getting ready

Everything you need to complete this recipe is included inside the WordPress dashboard. Note, however, that while the WordPress import function is included in the dashboard, you will be prompted to download individual importers.

How to do it...

WordPress supports the importation of blog content from several other platforms, including Blogger, Blogroll, LiveJournal, MovableType, and TypePad. It also makes it easier to import posts saved from another WordPress site. The functionality also includes options to help import categories, tags, and RSS feeds.

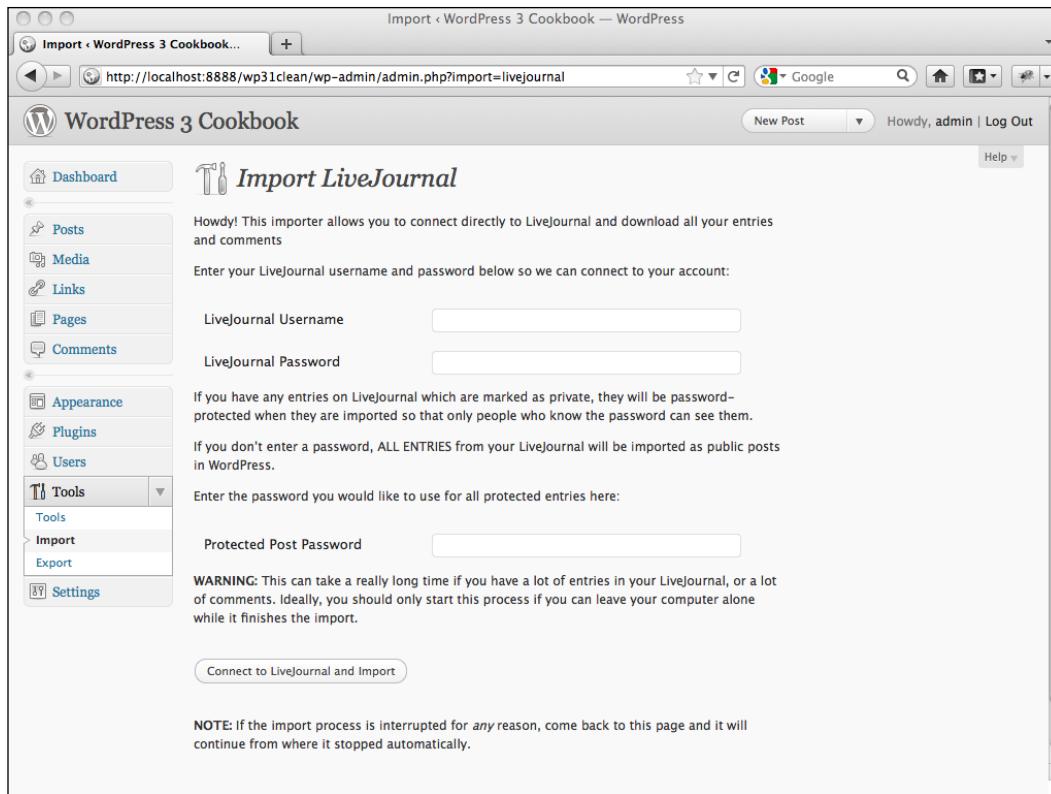
By way of example, let's assume you wish to import content from a LiveJournal blog site. Follow these steps:

1. Connect to your old blog and export your content. Save the file on your hard drive.
2. Log in to your WordPress **Dashboard**.
3. Click on the **Tools** menu.
4. Click on the option **Import**.
5. On the page that loads, you can select the type of import. In this example, we're going to select the option **LiveJournal**.
6. The system will now prompt you to install the **LiveJournal** import plugin. Install the plugin and activate it.
7. Once done, input your **LiveJournal Username** and **Password** on the fields provided, as shown in the next screenshot.
8. You're done! Please note that depending on your exported file size, this procedure can take a while.

The system will now attempt to import the posts and add them to your WordPress site.



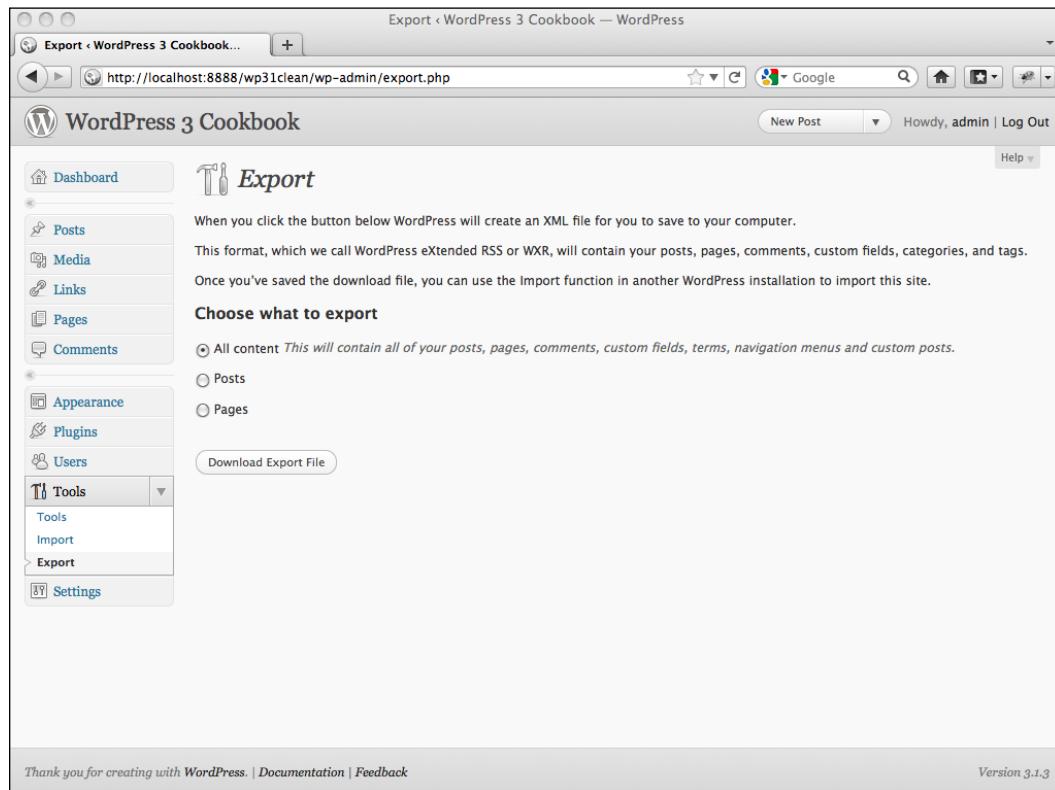
The process used for a LiveJournal import is typical of that used by all the import options. If you wish to import from a system not listed, check the WordPress plugins listings at www.wordpress.com.



Exporting content is also quite easy; simply carry out the following steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Tools** menu.
3. Click on the **Export** option.
4. Select what you wish to export and click on the appropriate radio button, as shown in the next screenshot.
5. Click on the **Download Export File** button.

The system will then prompt you to save the export file.



Installing and using Jetpack

In early 2011, Automattic released Jetpack, a cloud-based suite of extensions for the WordPress CMS. Jetpack's features are based in part on functionality users of [www.WordPress.com](#) have enjoyed for some time. The modules include:

- ▶ A site traffic statistics function
- ▶ A LaTeX plugin
- ▶ A spellchecker
- ▶ A Twitter widget
- ▶ A shortlinks functionality
- ▶ A social sharing mechanism
- ▶ Easy embeds from video and media sites

Additional functionality is in the pipeline.

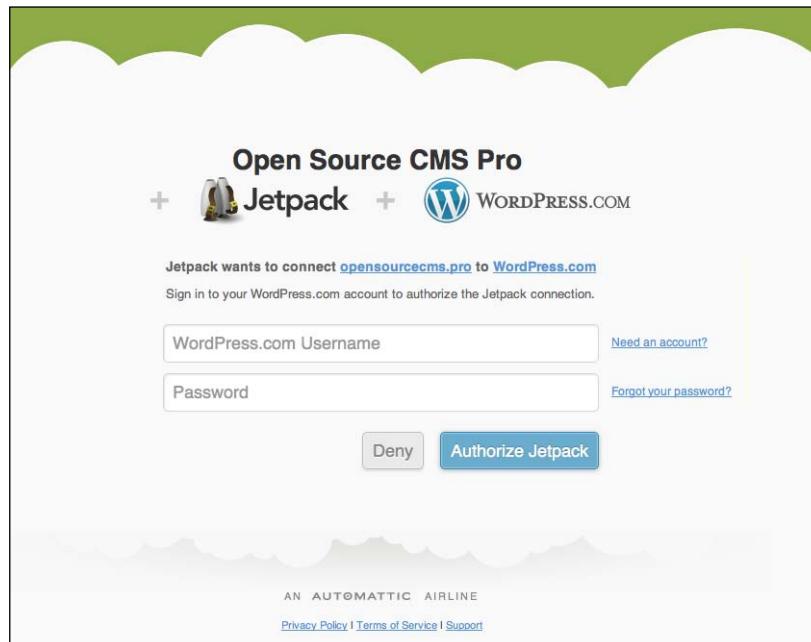
While some of the features of Jetpack are also available in other plugins, Jetpack is a quick and easy solution from a known solutions provider.

In this recipe, we look at installing Jetpack and getting it up and running.

Getting ready

To execute this recipe, you will need to install the Jetpack plugin. You will need to install this plugin before you can get started. Search for **Jetpack** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

Installation requires a slightly different approach than for most other plugins. To use Jetpack, you must be a registered user on www.WordPress.com. As the next screenshot shows, you will need to use your www.WordPress.com credentials to activate the plugin:



How to do it...

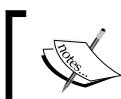
After you have installed Jetpack and authorized it with www.WordPress.com, you will see the **Jetpack Dashboard**, as shown in the next screenshot. Before you can start using the features, you will need to do a bit of configuration, as follows:

1. To begin using any of the features, first click on the **Learn More** button.

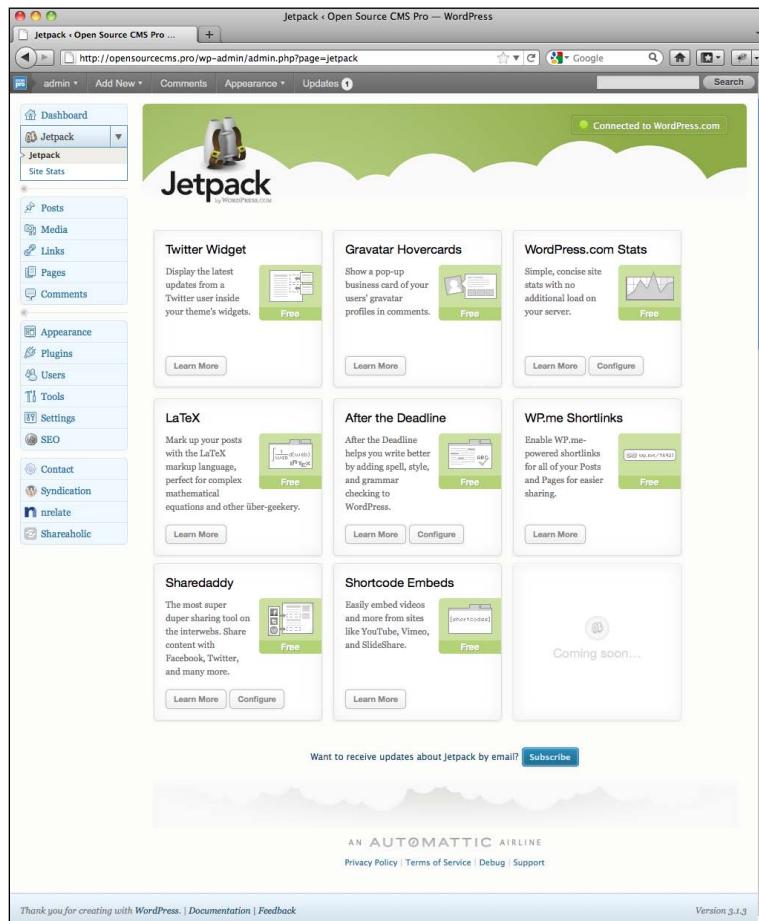
The WordPress Cook's Tools

2. The module will now be activated; if you don't want to use it, click on the **Deactivate** button.
3. Some modules will present you with a **Configure** button, indicating there are customization options available. Click on the **Configure** button to learn what options are available.
4. Some items, such as the **Twitter Widget**, are actually controlled in a separate location.

Once Jetpack is installed, a link to the Jetpack settings page is always visible at the top left of your WordPress dashboard. A separate link will show you the site statistics, assuming you have activated the feature.



Site statistics and the WP.me shortlinks functionality are also available from the front-end, if you have installed the admin toolbar for the front-end of the site. See the next recipe for a discussion of the admin toolbar.



How it works...

While some of the features in Jetpack are simple plugins, other features rely on a cloud-based approach to services. Both the stats and the shortlinks functionalities need a connection to the Internet and to www.WordPress.com.

There's more...

WordPress Popular Posts is a separate plugin that uses the information gathered in the Jetpack stats module. The plugin provides a nice and configurable widget that shows a list of the most popular posts on your site.



Learn more about the plugin by visiting the developer's site at
<http://polpoindroidi.com/wordpress-plugins/wordpresscom-popular-posts/>



Enabling the toolbar for users and administrators

One of the new features included with version 3 of WordPress is the **Admin Bar**. The bar is a menu bar that sticks to the top of the page and is always visible. It can be activated for either the front-end, the back-end or both. The bar contains shortcuts to the Admin dashboard and to various administration functions, depending largely on the user role of the viewer.

This recipe shows you how to enable this useful feature for your site users.

Getting ready

Everything you need to complete this recipe is included inside the WordPress dashboard. Note, however, that while the WordPress import function is included in the dashboard, you will be prompted to download individual importers.

How to do it...

This feature is not enabled by default, so you need to set it up for your users. Here's how to do it:

1. Log in to the WordPress **Dashboard**.
2. Click on the **Users** menu.
3. Click on the name of the user for whom you wish to enable the **Admin Bar**.
4. On the user **Profile** page, look for the option labeled **Show Admin Bar**.
5. Select whether you want to user to see it on the front-end, the back-end, or both.
6. Click on **Update Profile**.

2

Installing and Customizing Themes

In this chapter, we will cover:

- ▶ How to install a new theme
- ▶ Creating a new child theme
- ▶ How to modify the colors of a theme
- ▶ How to modify the fonts used by a theme
- ▶ Creating and integrating a favicon
- ▶ Adding a custom logo to a theme
- ▶ Customizing the login page
- ▶ Using conditional tags to control content display
- ▶ Using multiple page templates
- ▶ Using post formats
- ▶ Creating a custom 404 error page
- ▶ Using a static page for your home page
- ▶ Adding custom styles to your theme
- ▶ Making your site mobile device friendly

Introduction

themes are the most visible portion of your website. The theme controls the appearance of the site, and is largely responsible for the first impression your site makes to visitors.

While the default WordPress installation includes a couple of simple themes, those themes are not right for everyone and are already widely used by others. If you want your site to stand out, you will want to create a distinctive appearance for your site.

Creating the right look for your site can be achieved by customizing an existing theme, adding new theme, or a mix of these approaches. In this chapter, we look at how to work with theme files with the goal of helping you to achieve a unique or distinctive look and feel for your WordPress site.

Installing a theme

A theme is actually a set of files — templates, stylesheets and other helper files — that control the display of your site. There are quite a few themes available on the WordPress.org site and they are all free for your use. Alternatively, there are commercial theme providers and you can always hire something to design a theme for you, or you can even do it yourself. Regardless of how you source your theme, you will need to install it on your site. In this recipe, we look at how to install and activate a new theme.



To check out the free themes on the official WordPress site, visit
<http://wordpress.org/extend/themes/>



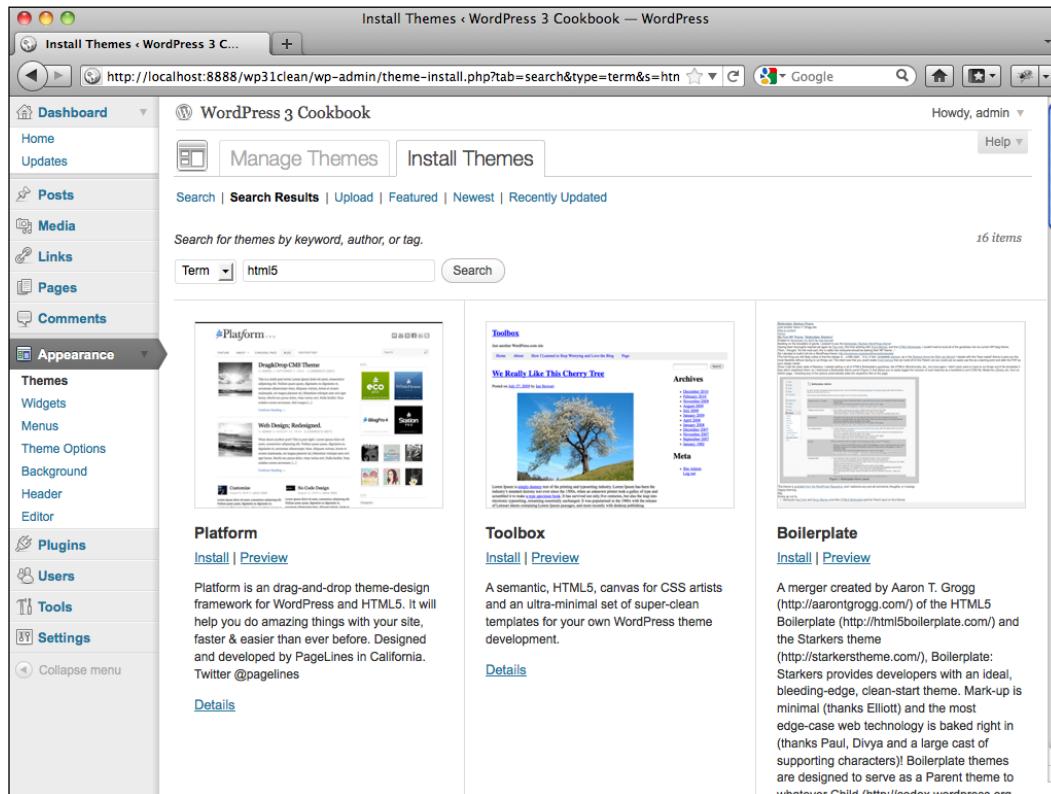
Getting ready

To install theme automatically, you don't need anything special. The entire recipe can be completed from within the WordPress dashboard. If, however, you wish to install the theme manually, as explained later in this recipe, then you will need to have the theme files as well as access to the WordPress installation on your server.

How to do it...

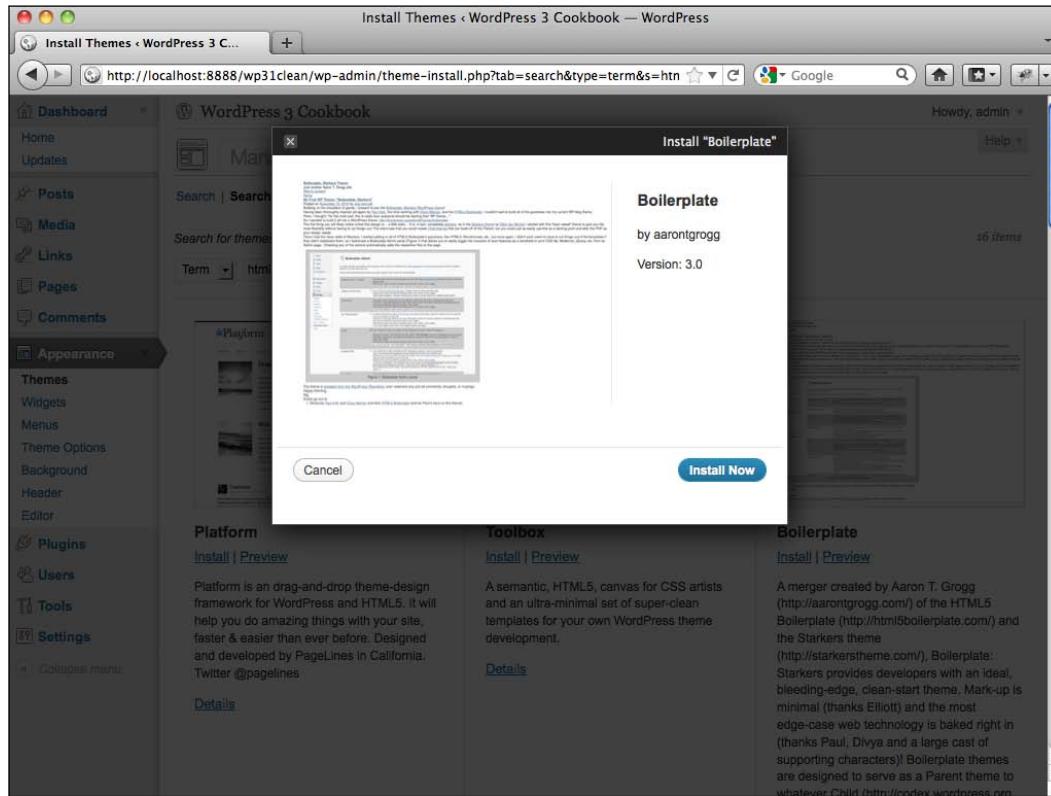
1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.

3. Click on the **Themes** option.
4. Click on the **Install Themes** tab.
5. In the empty text field at the top of the page, either enter the name of the theme you wish to install, or a search term.
6. Click on the **Search** button.
7. Any themes that match your query will appear, as shown in the following screenshot:

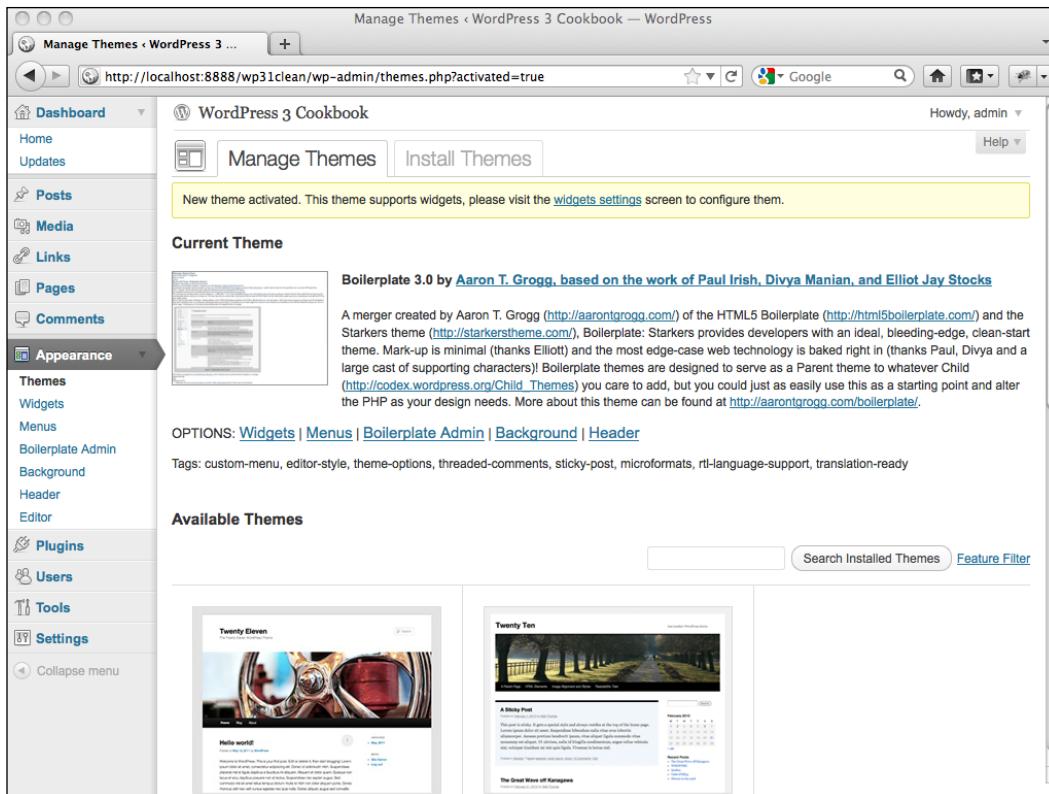


Installing and Customizing Themes

8. Click on the **Install** link beneath the name of the theme you wish to install. The system will ask you to confirm the installation, as seen in the next screenshot:



9. Click on the **Install Now** button.
10. If you are successful, you will see a confirmation message.
11. If you want to use your new theme immediately, click the **Activate** link.
12. The system will then activate the theme and return to the Theme Manager where you will see a confirmation message, as shown in the following screenshot:



There's more...

If you are like most users, you will wind up using the automatic installer for your themes. However, if you have built your own theme, or obtained the theme files directly, you may want to use manual installation.

Installing a theme manually

Once you have your theme files, follow these steps:

1. Access your WordPress installation on your server.
2. Navigate to the directory `/wp-content/themes`.
3. Move your theme files into the directory, but located inside their own directory, for example, `/wp-content/themes/mynewtheme`.
4. Log in to your WordPress **Dashboard**.
5. Click on the **Appearance** menu.

6. Click on the **Themes** option.
7. You should see your theme listed on the Theme Manager page. Find it and click on the **Activate** link under the theme's name.

Creating a child theme

In WordPress terminology, a child theme is any theme that inherits the functionality of another theme. The theme that provides the original functionality is referred to as the "parent theme." Child themes are useful, as they allow you to customize the appearance of your site without having to modify the original files, and thereby run into problems when you install upgrades or patches.

Child themes are very easy to create while also giving you a great deal of freedom. Since the attributes of the original theme are inherited, all you really need to put into your child theme are the things you want to modify.

In this recipe, we go through the steps involved in creating a basic child theme and we also look at some of the things you can do with it.



You can learn more about child themes by visiting the WordPress Codex at http://codex.wordpress.org/Child_Themes

Getting ready

For our example, we're going to use the default WordPress Twenty Ten theme. All you need to execute this recipe is your favorite code editing program and access to the WordPress files on your server.

How to do it...

1. Access the WordPress installation on your server.
2. Go the /wp-content/themes directory.
3. Create a new directory; name it **twentytwenty**.
4. Create a new blank file named **style.css** and save it to /wp-content/themes/**twentytwenty**.
5. Paste into your new **style.css** file the following code:

```
/*
Theme Name: Twenty Twenty
URI: http://www.yoursite.com/
Description: Child theme based on the Twenty Ten theme
```

```
Author: Author's Name  
Author URI: http://www.authorsurl.com/  
Template: twentyten  
Version: 1.0  
*/  
@import url('../twentyten/style.css');
```

6. Save the file.
7. Log in to your WordPress dashboard.
8. Click on the **Appearance** menu.
9. Click on the **Themes** option.
10. You will see on the **Themes** page a list of the themes installed on your site, including your new theme **Twenty Twenty**.
11. **Activate** the Twenty Twenty theme.

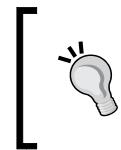
When you visit the front-end of your website, you will see no differences. That is because while you have created a new theme, at this point there are no unique styles or functions associated with Twenty Twenty, hence the output is straight from the original TwentyTen.

How it works...

All you need to create a new child theme is the `style.css` file. That file, however, is required and must be named `style.css`. Moreover, you must make several of the declarations you see in the code example above. You must give your child theme a unique **theme name** and you must declare the parent theme in the **template** field. All other values in the code above are optional.

The theme system in WordPress works on a system of inheritance. When you declare the parent theme in the **template** field of your `style.css` file, WordPress will automatically treat the new theme as a child theme.

Note that the child theme's `style.css` file completely replaces the parent theme's stylesheet of the same name. Accordingly, we import the parent theme's stylesheet with the declaration
`@import url('../twentyten/style.css');`



If you only import the parent theme's styles, your theme might be impacted if the parent theme's stylesheet is updated, say, as the result of a theme upgrade. To avoid this problem, you can simply copy all the parent theme's styles into the child theme's stylesheet.

There's more...

The child theme we created above looks identical to the original parent theme. Here's how to customize the output of your new Twenty Twenty to fit your needs.

Customizing the styling of your child theme

To customize the styling of your new child theme, simply place selectors in the new `style.css` file. You can add new selectors, or you can change the definition of any of the original selectors by placing new versions in your stylesheet.

You can also impact the styling through the use of unique templates in your child theme. WordPress will look first for templates in your child theme, then it will look in the parent theme. This means that not only can you add new templates to your child theme, you can override the original templates by creating new ones inside your child theme and giving them the same name as templates in your parent theme.

Customizing the functionality of your child theme

To add your own functions to your child theme, simply create a new file named `functions.php` and place it in the child theme directory. Note that, unlike templates and stylesheets, the `functions.php` file in your child theme will not override the `functions.php` file in the parent theme. This means that the functions of the parent theme will always be used unless you disable those functions. You can simply comment out the original function and add a new, properly named function to your child theme's `functions.php` file.



Remember, if the parent theme's files are updated and the original `functions.php` file is overwritten, you will have to go back and comment out the relevant functions again!

Modifying your theme colors

Have you ever come across a WordPress theme available online and thought, 'Wow, this is a great theme, but it would look even better if it had a green layout!'? Luckily, changing a theme's color scheme isn't as difficult as it might seem.

In this recipe we look at editing your theme's stylesheets to modify the theme color scheme.

Getting ready

We're going to be working on the files inside your theme. To complete this recipe, you will need an editor to work with the CSS files of your theme; a standard text editor will do the job. You will also need access to the files of your WordPress installation on your server.

Before you get started with making changes, it's a good idea to first sort out the color scheme you want to implement and grab the color codes. One of the best ways to do this is to use a graphics program to work up a mock up of what you want your page to look like. Once you have adjusted things and got them just the way you want them, copy the color codes you need and keep them handy for the steps below.

How to do it...

1. The first thing we need to know is which hexadecimal color codes are currently used in the theme you want to modify. Most WordPress themes use a color scheme of three to five different colors. In order to know which colors are used in the theme, access your theme files and open the CSS file `style.css`.
2. The CSS property used to define a background is called `background-color` (or simply as part of the `background` selector). For the foreground color, the property's name is `color`. For the border colors, it is `border-color` (or simply, as part of the `border` selector). For example, here's the color scheme that's used on the OpenBook theme:
 - ❑ Background color: #151515
 - ❑ Content background color: #fff
 - ❑ Header blocks: #222
 - ❑ Green (used for links): #49AB0D
 - ❑ Blue (Titles, hover links): #109dd0
3. Search for the color codes used in the current theme and then replace them with the color codes you saved earlier.
4. Repeat the search and replace the command as necessary.
5. Save the file.

If you now view the front-end of your WordPress site, you should see your new colors in place.



If you're new to CSS a good starting point is the tutorial at W3C Schools:
http://www.w3schools.com/css/css_intro.asp



How it works...

CSS, or Cascading Style Sheets, contain the definitions of the various styles used in your theme. By changing the color codes in the stylesheet, we change the colors displayed by the browser when it interprets your theme files.

There's more...

The following are a few important points, for your information:

- ▶ All themes use a `style.css` file, but some themes also use additional stylesheets (for example, using a specific stylesheet for Internet Explorer is very common). Thus, make sure to replace colors in all stylesheets that are part of the theme.
- ▶ This trick can only replace CSS-based colors. To modify image colors, you'll need to use a design program such as Adobe Photoshop or The Gimp.
- ▶ If you changed your theme colors and some parts still display the old colors, make sure that the CSS colors are written in hexadecimal codes (for example: `#151515`). Some theme designers use color names instead of hexadecimal codes (for example: they may use background color: white instead of background color: `#FFFFFF`).
- ▶ Some color codes can be written by using shorthand, for example, `#006699` can be written as `#069`—therefore, make sure that you've checked for that too.

Modifying your theme fonts

Now that you have learned how to search and replace hexadecimal color codes, let's customize your theme a bit more.

In this recipe, we're going to see how we can easily modify the fonts used in a WordPress theme and also discuss best practices for typography in WordPress.

Getting ready

For this recipe, you'll need exactly the same things that were needed in the *Modifying your theme colors* recipe—a theme to customize, and a text editor. As we recommended in the previous recipe, it's a good idea to sort out the font scheme you want to implement before you get started. A good graphic design program will allow you to experiment with different combinations until you find the font scheme you prefer. Once you have it sorted out, note the names of all the fonts used, as you will need that information for the steps that follow.

Web safe fonts

A common beginner's mistake is to try and use non web-safe fonts for a web site. For example, there are web sites using the Myriad Pro or Segoe UI fonts. While those fonts may look great, they are only available on about 10% percent of the browsers that are likely to be used by your readers.

The following fonts are widely supported, even by most older browsers:



- ▶ Times New Roman
- ▶ Arial
- ▶ Verdana
- ▶ Courier
- ▶ Comic Sans
- ▶ Trebuchet MS
- ▶ Century Gothic
- ▶ Helvetica

You can find a full listing of web safe font combinations at http://www.w3schools.com/cssref/css_websafe_fonts.asp.

The list of fonts above is pretty limiting; in the latter part of this recipe we look at a new alternative that has arisen with CSS3.

How to do it...

1. In order to modify the fonts of a theme, the first step is to identify all the font declarations in the theme and find out which fonts are being used presently. Open your theme's `style.css` file and search to find the font and font-family CSS properties.
2. Modify the font declarations you wish to change, adding or substituting the new fonts you wish to see used.
3. Save the `style.css` file.
4. Open the other style sheets in your theme and repeat the process.

Check the front-end of your site and you should see your new themes at work.

There's more...

Here are some useful tips about fonts in general and a way to sidestep the web safe fonts issue.

Tips and things to know about fonts

A few things to keep in mind:

- ▶ The optimal font size for text readability is between 11 and 14 pixels; 12px is the most common choice of font size. For titles, (h1, h2, h3, and so on) a font size between 14 and 26 pixels tends to work well.
- ▶ While using a font with a two word name (for example, Trebuchet MS), always put it between quotes; that is, `font-family: "Trebuchet MS";`
- ▶ While defining font families always list at least two fonts, and offer a generic family name as the last alternative. The client's browser will use the first font that it recognizes.

Using @font-face

CSS3 is the latest standard in stylesheets. It adds a number of interesting properties, including one that has been seen on and off in previous versions of the standard: `@font-face`. As the rule has appeared before, browser support for it is quite good, including with traditionally problematic Internet Explorer. `@font-face` lets you break away from worrying whether a particular font is installed on the user's machine and thereby gives you a wide range of options for your typography.

It works like this: Use of an `@font-face` declaration in your theme will allow you to place your font file in a web directory and then link to it from the theme's CSS. Since the fonts are already hosted on the web, you don't have to rely on the local browser to supply them.

Here's how you can use it:

1. Obtain the font files you need for your site.
2. Move them on to a server, into a directory that is publicly accessible. If this is only for the one site you are working on, you can even place them inside your theme directory.

Open up the primary CSS file for your theme and add font declaration for your new font. The declaration will look something like this:

```
@font-face {  
    font-family: 'NameOfTheFont';  
    src: url('path-to-my-webfont.eot') format ('eot'),  
        url('path-to-my-webfont.woff') format ('woff'),  
        url('path-to-my-webfont.ttf') format ('truetype');  
}
```

3. You are ready now to use the new font family in your selectors. Simply specify the 'NameOfTheFont' as part of a font-family definition, for example:

```
body {  
    font-family: NameOfTheFont, times, serif;  
}
```



Not all fonts are free for use without restriction. Before you adopt a font for this usage, make sure you have the rights to use it on your site.



Creating and integrating a favicon

A favicon is a small icon (16 x 16 pixel) associated with a website. The favicon is displayed by modern web browsers in the address bar, tabs, and bookmarks.

Nowadays, almost all the websites and blogs have their own favicon. The following screenshot shows the BBC website's favicon, as displayed in the Mozilla Firefox browser:



In this recipe, we look at how you can add a favicon to your site.

Getting ready

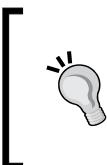
To execute this recipe, you will need access to your WordPress installation on your server. You will also need a 16 x 16 pixels image to serve as a favicon. Due to the very small display size of the favicon, the image must be very simple.



Try using a background color that fits your website's color scheme, together with a simplified version of your logo.



While you can use .jpg, .png, .gif, or even .mg and a .png file to display a favicon, unfortunately, Internet Explorer (6 and 7) only recognizes the Windows .ico file format. Therefore, if you want to have an IE-compatible favicon, you'll have to convert your image file from .png, .gif, or .jpg to Windows .ico.



Many imaging software applications can convert an image into a Windows icon file. There is even an online service called ConvertIcon at <http://converticon.com/>. The ConvertIcon application will also resize your image if needed. Therefore, there's no need to worry about your image width and height.

How to do it...

1. Once you have your favicon ready, upload it to a directory inside the WordPress installation on your server; your theme's directory is a good location, but it is up to you.
2. Open the header.php file from your theme.
3. Add the following line of code to the file. This line can be placed anywhere within the <head> and </head> tags:
`<link rel="shortcut icon" type="image/x-icon" href="/path/to/your/favicon.ico" />`
4. Once you have saved your header.php file, your favicon will be displayed.

How it works...

With the addition of the code above, the browser will automatically detect and display the favicon when someone visits the site.

There's more...

If you uploaded your favicon into your wp-content/themes/yourtheme directory, we can also use the bloginfo() function in order to automatically retrieve the template path as follows:

```
<link rel="shortcut icon" type="image/x-icon"
      href="<?php bloginfo('template_url'); ?>/favicon.ico" />
```

If you chose to use a file format such as .gif, .png, or .jpg for your favicon, you can add your favicon with the following code; however, Internet Explorer may not recognize it:

```
<link rel="icon" type="image/png"
      href="favicon.png" />
```

Adding a custom logo

By default, most WordPress themes display a header text—usually the name of the blog and blog description. This is a nice option for personal blogs. However, I personally believe that displaying your own personal logo will make your blog look even more professional.

In this recipe, we shall learn how we can add a logo instead of the default blog name and slogan on a WordPress theme. The screenshot at the end of the recipe shows the logo integration on a default WordPress theme.

Getting ready

For this recipe, you'll need your own logo and a WordPress theme on which you'd like to integrate your logo. I shall be using the WordPress default theme for this recipe.

However, there are a few things to be kept in mind before getting on with this recipe:

- ▶ Some recent themes don't display the blog name and slogan anymore—instead, they display a default logo which can be changed by editing the code or even by defining a new logo in a custom WordPress control panel (which shall be covered in *Chapter 3*).
- ▶ Due to the fact that each theme is coded differently, the result of this recipe may vary from one theme to another.

How to do it...

1. Access the directory containing the theme files for your WordPress installation.
2. Copy your logo into the `/images` directory of your active theme; note the name.
3. Open the active theme's `header.php` file.
4. Locate the part of code where the blog name and description are displayed. In the WordPress default theme, in the default Twenty Eleven theme, it looks like this:

```
<hgroup>
    <h1 id="site-title"><span><a href=<?php echo esc_url( home_
url(
    '/' ) ); ?>" title=<?php echo esc_attr( get_bloginfo(
'name' ,
'display' ) ); ?>" rel="home"><?php bloginfo( 'name' );
?></a></span></h1>
    <h2 id="site-description"><?php bloginfo( 'description' ); ?><
/h2>
</hgroup>
```

5. While we could just put an `html` image tag between the `<h1>` and `</h1>` tags, there's a much better, SEO friendly, way to display our logo—by using CSS.

6. Open the `style.css` file from your theme.
7. Find the definition for `#site-title`. In the default Twenty Eleven theme, it looks like this:

```
#site-title {  
    margin-right: 270px;  
    padding: 3.65625em 0 0;  
}
```

8. Now, replace the preceding piece of code with the following:

```
#site-title {  
    padding: 3em 0;  
    background: url("images/logo.png") no-repeat scroll 0 1em  
    transparent;  
    margin-right: 270px;}
```

9. Find the definition for `#site-title a`. In the default Twenty Eleven theme, it looks like this:

```
#site-title a {  
    color: #111;  
    font-size: 30px;  
    font-weight: bold;  
    line-height: 36px;  
    text-decoration: none;  
}
```

10. Now, replace the preceding piece of code with the following:

```
#site-title a {  
    color: #111;  
    font-size: 30px;  
    font-weight: bold;  
    line-height: 36px;  
    text-decoration: none;  
    margin-left: 120px;  
}
```

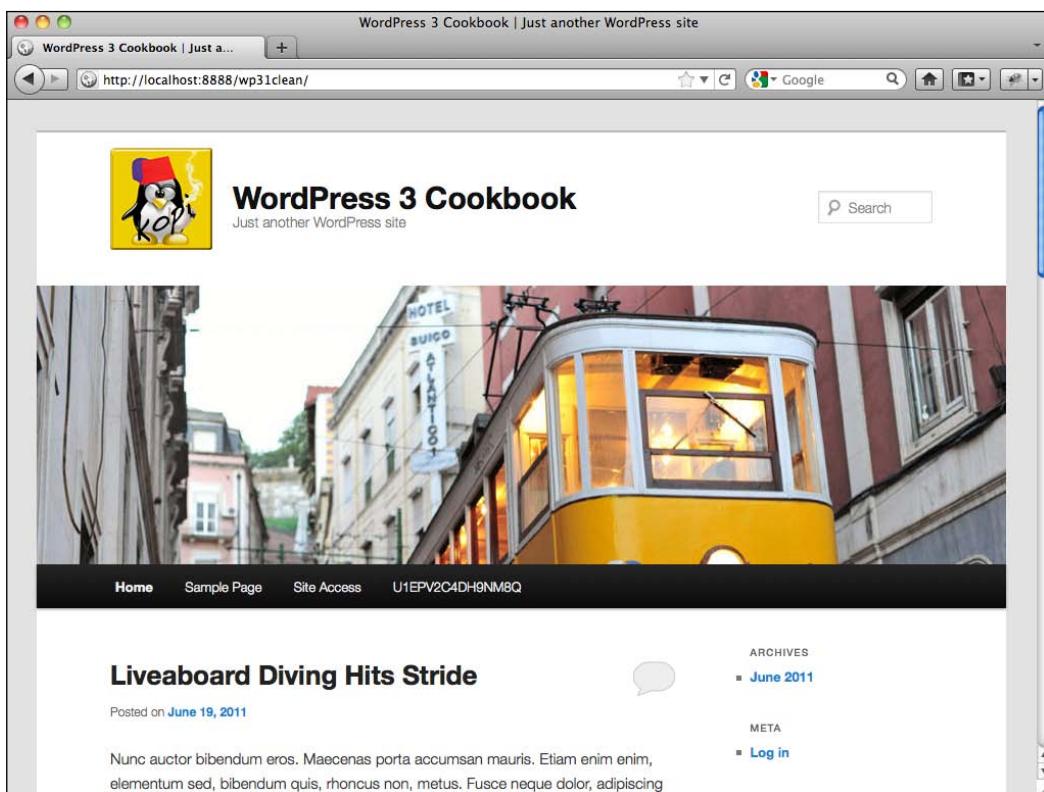
11. Find the definition for `#site-description`. In the default Twenty Eleven theme, it looks like this:

```
#site-description {  
    color: #7a7a7a;  
    font-size: 14px;  
    margin: 0 270px 3.65625em 0;  
}
```

12. Now, replace the preceding piece of code with the following:

```
#site-description {  
    color: #7a7a7a;  
    font-size: 14px;  
    margin: -50px 270px 3.65625em 120px;  
}
```

If you visit the front-end of the site now and refresh the page, you should see your new logo on the header of your site. The original Twenty Ten theme does not display a logo; you can see in the screenshot below the revised theme with our logo to the left of the title and tagline:



How it works...

The CSS approach to displaying a logo works by using the logo image as a background for the `<h1>` tag. In the first selector, `#site-title`, you can see the background property being used to display the image file. The margin and padding have been adjusted to aid in proper display inside the header. In the `#site-title a` selector, the margin has been adjusted to place the text for the site name to the right side of the logo. Finally, the `#site-description` selector was adjusted to add a margin to place the site description underneath the site title and to the right of the logo image.

Customizing the login page

By default the WordPress login page is outside the theme system and therefore, the login page does not change when the theme changes. By default, all WordPress login pages look the same, with the basic WordPress branding in place and no information that identifies the site.

For many clients, the default presentation is not the best choice. Some prefer to brand the login page, or at least to make it visually consistent with the active theme. In this recipe we look at a plugin that turns the default login page into a page that can be managed through the dashboard and themed via the theme system.

Getting ready

To execute this recipe, you will need to install the Theme My Login plugin. You will need to install this plugin before you can get started. Search for **Theme My Login** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

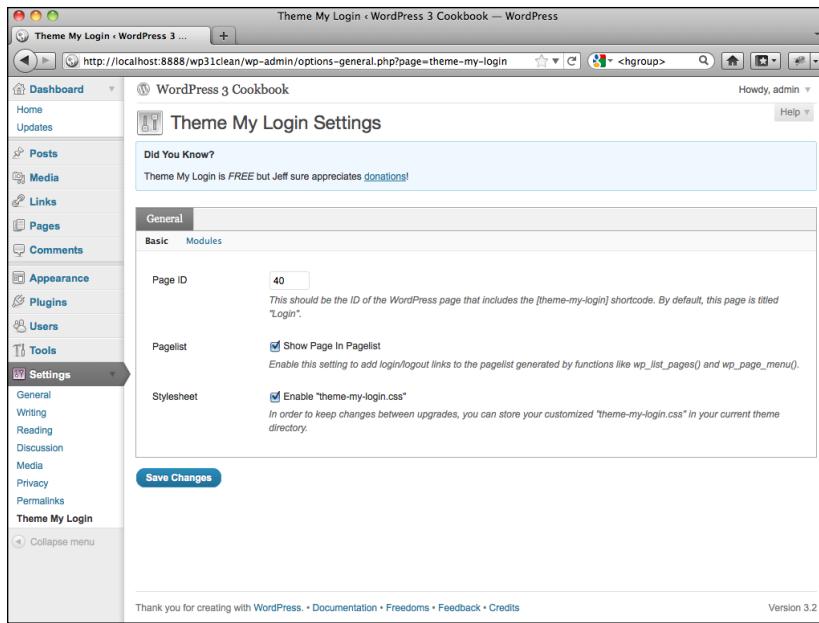


The developer maintains a basic set of online documentation for the plugin at http://www.jfarthing.com/docs/Theme_My_Login

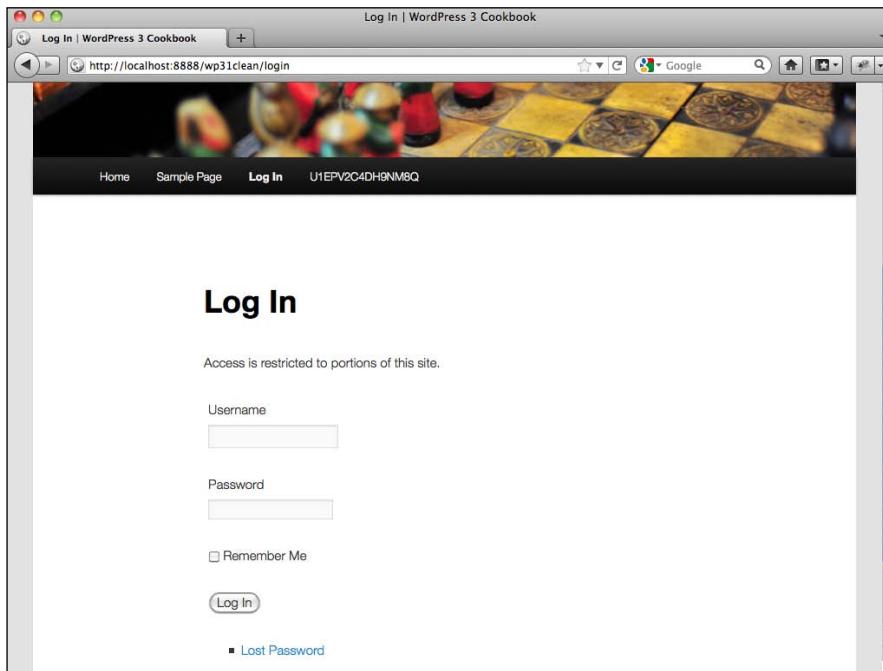
How to do it...

Once the plugin is installed and activated, carry out the following steps to configure the plugin:

1. Log in to the WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **Theme My Login** option.
4. On the **Basic** tab, the default settings are fine for most people. Simply click on the **Save Changes** button to finalize the configuration.



The new login page is now ready to go. It will be active on your site as soon as you finish the configuration steps, above. The default output is shown in the next screenshot:



To customize the page, you have several options. You can add text to the page by editing the new login page under the Page Manager. To add text to the page, follow these steps:

1. Log in to the WordPress **Dashboard**.
2. Click on the **Pages** menu.
3. Select the **Log In** page from the list of pages and click on the **Edit** link to open it for editing.
4. Make your changes to the page.
5. Click on the **Update** button to make your changes live.



When editing the page, you will see the following: [theme-my-login]. This is the shortcode that is used to put the login output on the page. You can use that shortcode elsewhere if you prefer, and unpublish the default page created by the plugin.



Another option for customizing the page is to modify the CSS. The plugin adds a new stylesheet to your site just for this purpose, but to use it, you need to take some steps:

1. Access your WordPress installation on the server.
2. Go to the directory /plugins/theme-my-login.
3. Copy the file theme-my-login.css.
4. Paste the file inside your active theme's directory.

The new .css will now control the styling of the form. You can edit it like any other CSS, using either the system's built-in editor, or editing with the application of your choice.

Yet another option for customizing the page is to use a custom template. The plugin adds a number of new stylesheets to your site just for this purpose, but to use them, you need to take the following steps:

1. Access your WordPress installation on the server.
2. Go to the directory /plugins/theme-my-login
3. Copy any of the templates you wish to use.
4. Paste the files inside your active theme's directory.

How it works...

The plugin enables a shortcode that allows for the login and related functionality to be displayed in a page or a post. The plugin also comes with a dedicated stylesheet and a set of templates that can be used to control not only the login page, but also all related pages, for example, the register form or the reset password form.

There's more...

The plugin includes several options that extend the login functionality and allow for further customization.

Enabling the plugin's modules

The plugin is bundled with a set of modules that allow you to do any of the following:

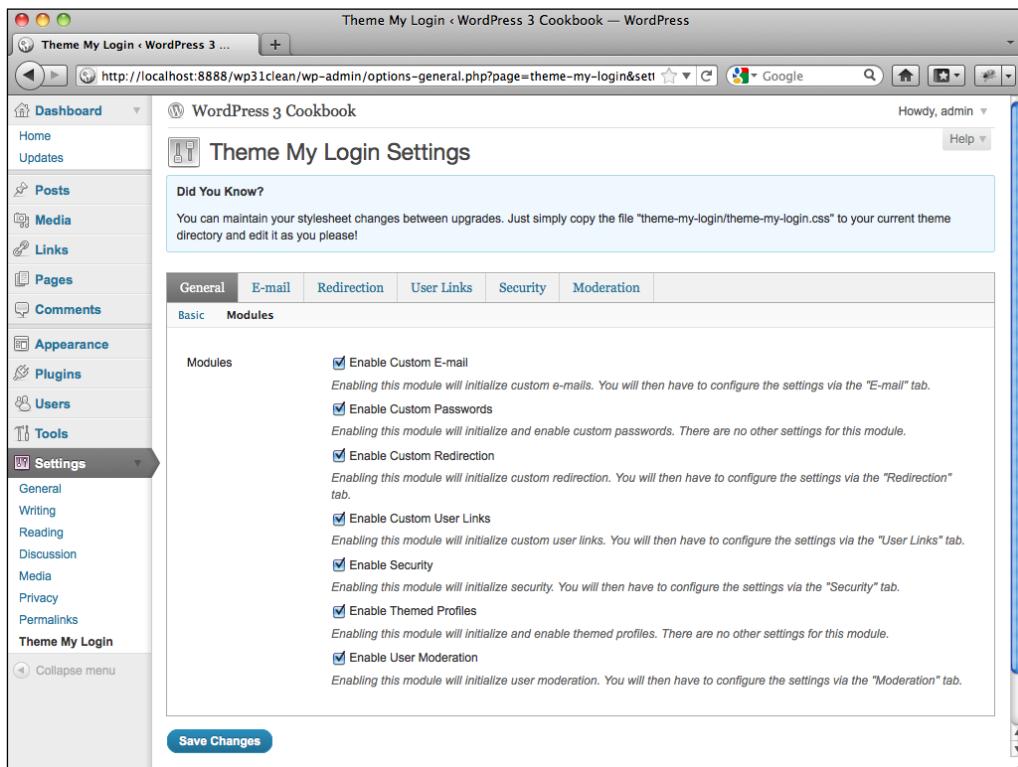
- ▶ Customize notification e-mails related to the login and registration process
- ▶ Enable custom passwords, allowing people to login with their username or e-mail address
- ▶ Redirect users to specific pages after submitting registration and login forms
- ▶ Add to or edit the links shown to logged in users
- ▶ Enhance security by limiting the number of login attempts
- ▶ Provide themes profiles for your users
- ▶ Enable moderation for particular actions, related primarily to registration

To enable and customize some or all of these functions, follow these steps:

1. Log in to the WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **Theme My Login** option.
4. Click on the **Modules** tab.
5. Select any of the options you desire.
6. Click on the **Save Changes** button.

Installing and Customizing Themes

7. You will now see a new set of tabs, as shown in the screenshot below. The number of tabs will depend upon which options you have selected. Click on the tabs to configure the options.



8. Click on the **Save Changes** button when you are finished.

Using conditional tags to control content display

Sometimes, you may want to display some content only on specific pages or sections. For example, you may wish to display a welcome message on your blog homepage or show specific information on the Categories page. In this recipe, we'll learn how to control output with the use of WordPress conditional tags.

Getting ready

To achieve this recipe, you'll need a code editor and access to the files of your WordPress installation.

How to do it...

1. Access your WordPress installation on the server.
2. Navigate to your active theme directory and find the template file you wish to modify.
3. Open the file for editing with your favorite editor.
4. WordPress conditional tags are Boolean variables so you have to use them as a condition of a php `if` statement, as shown in the following example:

```
<?php if(is_page())  
{  
    echo "Page title:";  
    the_title;  
} ?>
```

5. The preceding `if` statement will return `false` if the current page template isn't a WordPress page template so nothing would happen. Otherwise, the `if` statement will return `true` and will print the page title on screen.
6. After you've added the logic to the template you desire, save the file.

How it works...

The PHP conditional statement frames the tag and tells the system to check and see if the condition is true. Essentially, it works like this:

```
<?php if (conditional_tag()) "  
{  
    //Do something only if the condition is met.  
} ?>
```

On the other hand, some conditional tags request a parameter to work. For example, to use the `is_year()` tag, you have to provide a year in the parameter.

```
<?php if (is_year("2007"))  
{  
    //Do something only if the post or page was published  
    during the year 2007.  
} ?>
```

Most conditional tags don't take any parameters, but there are exceptions. Visit the WordPress Codex to learn more.

There's more...

Conditional tags, as we have seen, are very useful. Moreover, some conditional tags accept optional arguments that allow you to create more complex logic. Some conditional tags can accept up to four different types of parameters:

1. ID: The ID parameter can be used in `is_category()`, `is_page()`, `is_tag()`, `is_single()`, `is_author()`, and `is_sticky()`.

```
<?php if (is_category(5))
{
} ?>
```

As a result, the preceding code returns true if the category ID is 5.

2. Name: The name parameter can be used in `is_category()`, `is_page()`, `is_single()`, and `is_author()`.

```
<?php if (is_category("Blogging Tips"))
{
} ?>
```

As a result, the preceding code returns true if the category name is "Blogging Tips".

3. Slug: The slug parameter can be used in `is_category()`, `is_page()`, `is_tag()`, `is_single()`, and `is_author()`.

```
<?php if (is_category("blogging-tips"))
{
} ?>
```

As a result, the preceding code returns true if the category slug is "blogging-tips".

4. Array: The array parameter can be used in `is_category()`, `is_page()`, `is_tag()`, `has_tag()`, `is_single()`, and `is_author()`.

```
<?php if(is_category(array(5,'blogging-tips','Blogging Tips')))
{
} ?>
```

As a result, the preceding code returns true if the category of posts being displayed either has the ID of 5, slug as "blogging-tips", or the name "Blogging Tips".

WordPress features a large number of conditional tags that provide for a wide variety of conditions. All work as described above. Here is a list of some of the most useful conditional tags:

- ▶ `is_home()`: Returns `true` if the current page is the blog homepage
- ▶ `is_front_page()`: Returns `true` if the current page is the blog front page
- ▶ `is_single()`: Returns `true` if the current page is a single post template
- ▶ `is_page()`: Returns `true` if the current page is a page template
- ▶ `is_page_template("about.php")`: Returns `true` if a page template is currently being used
- ▶ `is_category()`: Returns `true` if the current page is a category template
- ▶ `in_category('4')`: Returns `true` if the current posts belongs to the specified category
- ▶ `is_tag()`: Returns `true` if the current page is a tag template
- ▶ `has_tag("wordpress")`: Returns `true` if the post has the tag specified in parameter
- ▶ `is_author()`: Returns `true` if the current page is an author archive
- ▶ `is_date()`: Returns `true` if the post or page is a date-based archive
- ▶ `is_year()`: Returns `true` if it's a yearly archive
- ▶ `is_month()`: Returns `true` if it's a monthly archive
- ▶ `is_day()`: Returns `true` if it's a daily archive
- ▶ `is_time()`: Returns `true` if an hourly, minutely, or secondly archive is being displayed
- ▶ `is_archive()`: Returns `true` true if the current page display any type of archives (time, author, tag, and so on)
- ▶ `is_search()`: Returns `true` if the current page displays search results
- ▶ `is_paged()`: Returns `true` if the current page is paged
- ▶ `is_404()`: Returns `true` if the current page is a 404
- ▶ `is_sticky()`: Returns `true` if the **Stick this post to the front page** check box has been checked for the current post
- ▶ `has_tag("WordPress")`: Returns `true` if the current posted has been tagged with **WordPress**
- ▶ `is_admin()`: Returns `true` if the dashboard or an admin page is currently displayed
- ▶ `comments_open()`: Returns `true` if commenting is allowed on the post
- ▶ `pings_open()`: Returns `true` if pinging is allowed on the post
- ▶ `is_preview()`: Returns `true` if the post or page is displayed in preview mode



A complete and current list of WordPress conditional tags is maintained at http://codex.wordpress.org/Conditional_Tags



Using multiple page templates

In WordPress themes, templates are used to control the layout available to your pages. Even though most of WordPress themes use a single page template, WordPress allows you to create as many different page templates as you want. Running multiple templates opens up a significant degree of flexibility in design and page layouts. You could, for example, create a page template specifically suited for forms, or others tailored to the page content and functionality.

In this recipe, you'll learn to create and use page templates.

Getting ready

To achieve this recipe, all you need is your favorite text editor and access to the WordPress files on your server.

How to do it...

We're going to start out with a bare minimum page template; once you've set up the basics, you can style it anyway you like. To create a basic page template, follow these steps:

1. Access your WordPress installation on your server.
2. Navigate to your active theme directory and find the file `page.php`.
3. Make a copy of the file and rename it `mytemplate.php`.
4. Open the `mytemplate.php` file in your favorite text editor and find the following code, located at the very top of the file:

```
<?php
/**
 * The template for displaying all pages.
 *
 * This is the template that displays all pages by default.
 * Please note that this is the WordPress construct of pages
 * and that other 'pages' on your WordPress site will use a
 * different template.
 *
 * @package WordPress
 * @subpackage Twenty_Eleven
 * @since Twenty Eleven 1.0
 */
```

5. Replace the code above with this code:

```
<?php  
/**  
 * My first custom template  
 *  
 * Template Name: My Template  
 *  
 */
```

6. Save the file.

That's all there is to it; your new page template is ready to use. To apply it to a page on your site, follow these steps:

1. Login to your WordPress **Dashboard**.
2. Click on the **Pages** menu.
3. Open any of the pages for editing by clicking the **Edit** link, seen when you move your over the page listing.
4. Look to the right column where you can see a combo box labeled **Template**.
5. Click to open the **Template** drop-down menu and you will see listed there your new template, **My Template**.
6. Select **My Template**.
7. Click on the **Update** button to apply the change.

If you visit your page, you will now see your new template applied.

How it works...

The WordPress page template allows you to define special template layouts that can be assigned to pages. As the administrator creates (or edits) a page, a template can be selected from the **Page Template** combo box in the sidebar.



Your custom page template files are also available for editing through the WordPress' built-in editor, under the **Appearance** menu.



There's more...

In the steps above, we created the most basic of page templates. However, now that you know how to make a page template, you can do with it whatever you want. Add your own styling, hard code text, or images, even add your own functional elements.

There's no upper limit on how many page templates you can create, so you can feel free to make any number of purpose-built templates that can be used by your content creators.



For some ideas of what you can do with this powerful WordPress feature, visit this page http://codex.wordpress.org/Pages#Page_Templates

Adding functionality with template tags

Template tags in WordPress work like snippets that provide you with discrete bits of functionality, but without the hassle of dealing with long segments of code. The tags are used to display information dynamically or to customize the output of the page.

There are a number of template tags available to you. You can see a complete list by visiting http://codex.wordpress.org/Template_Tags. Note that some tags include parameters that let you further extend the functionality.

Implementing a template tag is simply a matter of wrapping the tag in a php statement. Where parameters are available, you can also declare those, if you wish to use them. For example, let's say that in a particular page template you wish to automatically insert the date the page was posted. You could do this very easily by employing a template tag: `the_date()`. Your code might look like this: `<p>Date created: <?php the_date(); ?></p>`



In the example above, I wrapped the template tag in a `<p>` tag, but you could use the styling of your choice or even omit it completely.

There are other options as well, since `the_date()` also supports the following parameters: `$format`, `$before`, `$after`, `$echo`. Using the parameters, you could, for example, specify that the date will be in the format Year-Month-Day and also be wrapped with an `<H3>` tag:
`<?php the_date('Y-m-d', '<h3>', '</h3>'); ?>`

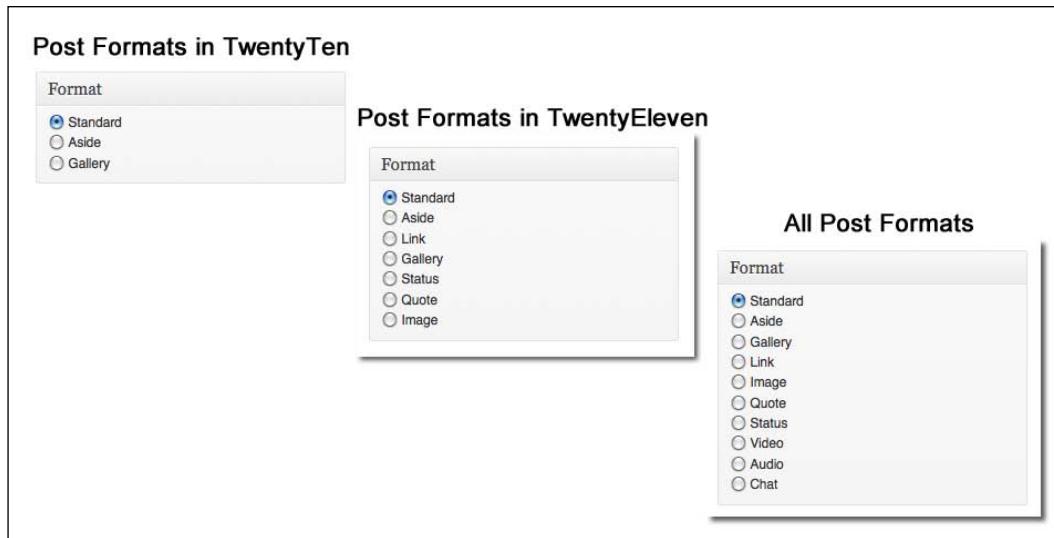


You can download a handy template tags cheatsheet by visiting <http://docs.ekinertac.com/Wordpress-Cheat-Sheet.pdf>

Using post formats

Post formats are a relatively new feature in WordPress, having first appeared in WordPress 3.1. The formats are a welcome development. In the past, many developers used categories as a way to group post content by nature or function and had to style based on category. With post formats, you have available a wide range of options that cover the most common categories of use, including audio, video, images, and galleries.

Support for post formats depends on the theme. As you can see in the next screenshot, there are even differences between **TwentyTen** and **TwentyEleven**. While **TwentyEleven** comes ready to use with a large number of post formats, in reality the theme uses only seven of the ten formats WordPress provides.



In this recipe we're going to look at how you can enable some or all of the additional post formats in your theme.

Getting ready

Post formats are a default feature of WordPress, however support for them varies from theme to theme. In this recipe we will look at the default Twenty Ten theme. We will modify the functions.php file to provide more post formats for the theme. To complete this recipe you will need a code editor and access to your WordPress installation on your server.

How to do it...

1. Access your WordPress installation on your server.
2. Open the functions.php file of your active theme. In this example, we are using the functions.php file from the default TwentyTen theme.
3. Find the following lines in the file:

```
function twentyten_setup() {  
  
    // This theme styles the visual editor with editor-style.css to  
    // match the theme style.  
  
    add_editor_style();  
  
    // Post Format support. You can also use the legacy "gallery"  
    // or "asides" (note the plural) categories.  
  
    add_theme_support( 'post-formats', array( 'aside', 'gallery' )  
);
```

4. We want to add additional items to the array of post formats, so we need to modify the last line of that code as follows:

```
add_theme_support( 'post-formats', array( 'aside',  
    'gallery', 'link', 'image', 'quote', 'status', 'video', 'audio', 'chat'  
) );
```

5. Save the file.

If you now access your WordPress dashboard and create a new post, or edit an existing post, you will see a full list of options under the **Format** sidebar, as seen in the preceding image.

How it works...

WordPress comes with a default set of post formats. While you cannot add your own, you can style the ones that are included in the system. The default post formats are:

- ▶ **Aside:** For holding a short piece of content, typically without a title
- ▶ **Audio:** To hold a single audio file
- ▶ **Chat:** Formatted to hold a chat transcript
- ▶ **Gallery:** Intended for use as a gallery of images
- ▶ **Image:** A single image file
- ▶ **Link:** A single link (URL) to an external site
- ▶ **Quote:** A quotation, often done without a title
- ▶ **Status:** A short status message, like you would see on Twitter or another micro-blogging service
- ▶ **Video:** Holds a single video file

Additionally there is the standard post format, which is simply the default format used by the system if no other format is specified.

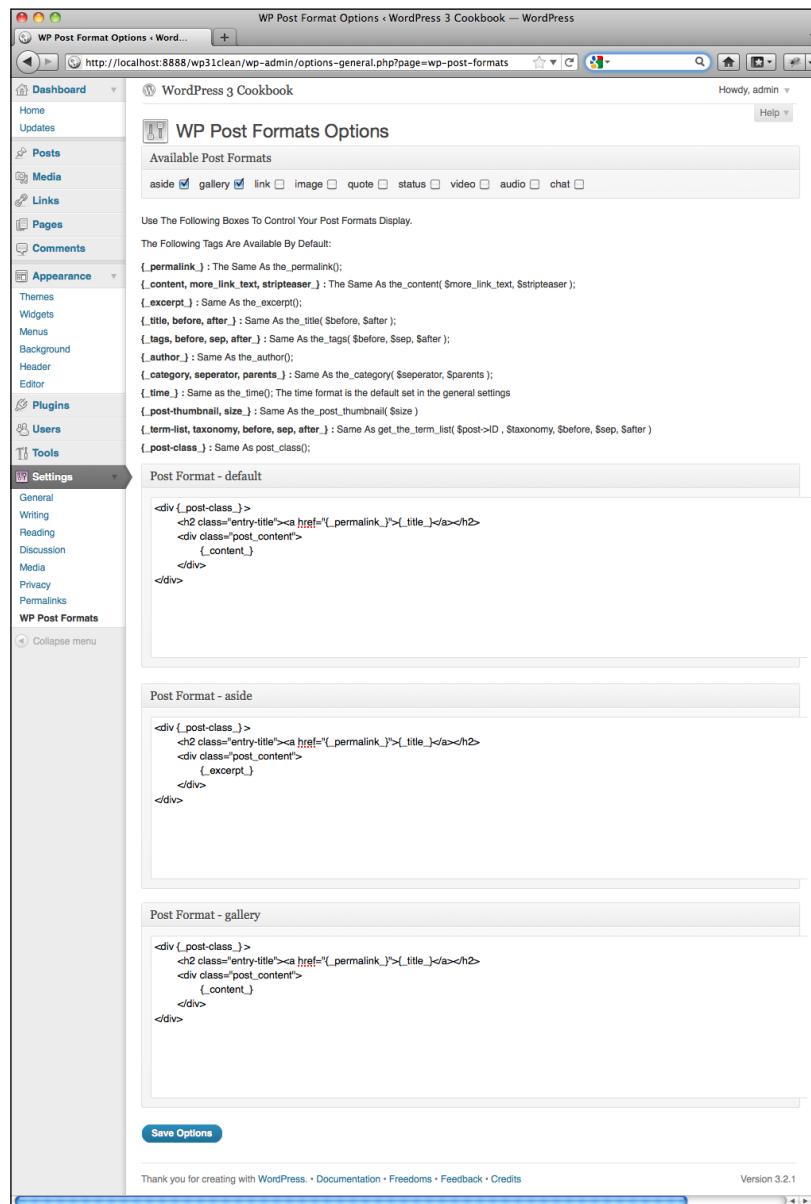
The post format options are set in the theme by the init function. In the recipe, we simply accessed the `functions.php` file, found the relative line, and then added to the array of post format types. Now, when the theme is activated, all post formats will be available through the WordPress post creation and editing screens.

There's more...

The recipe above shows you how to enable all the default post formats. The next question for most people will be "how do I style the post formats"?

An easy option for styling post formats

Styling post formats can be rather clunky, involving diving into the WordPress loop. There is, however, another way. The WP Post Formats plugin makes enabling and customizing post formats easy. Once installed, the plugin exposes the entire range of post format options and also includes editing windows that let you manage template for each of the formats, as you can see in the following screenshot :



Creating a custom 404 error page

404, or 'page not found' errors, are part of life on the web. They are impossible to avoid. What you can do, however, is control what kind of an impact they have on your site's users. Graceful management of 404 errors is one of the hallmarks of a professional website. When handled properly, the number of visitors you will lose due to 404 errors will drop off substantially.

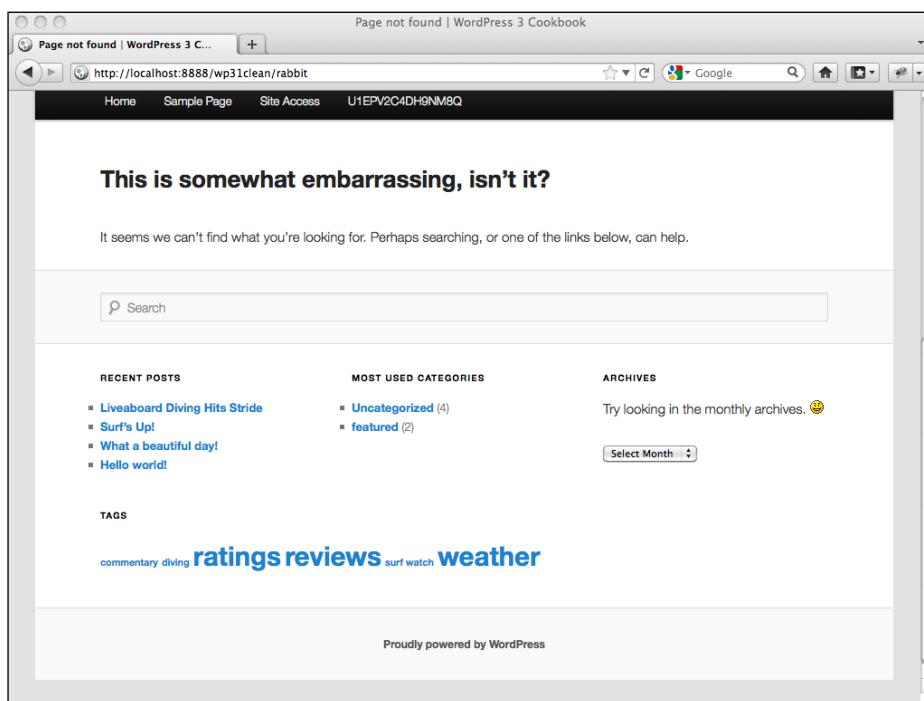
It is important that your site has a proper 404 page. The key aspects here are making sure the 404 error page shown is consistent with your brand and identity and providing your site visitors with a way to reach the rest of your site. In this recipe we discuss how to modify the default 404 page, if your site's theme already has one, and if not, how to create one.

Getting ready

For this recipe, you'll need a code editor and access to the files of your WordPress installation.

How to do it...

Many WordPress themes, including the default Twenty Eleven, come with a special template to handle 404 errors. The default Twenty Eleven 404 page template is displayed in the following screenshot:



The 404 error template is named `404.php` and resides in the active theme directory. If you wish to edit this file, follow these steps:

1. Access your WordPress installation.
2. Go to the directory that contains your active theme.
3. Open the `404.php` file with your favorite editor.
4. Make any changes you wish to the file.
5. Save the file back to your server, overwriting the original.

If, for some reason, your theme doesn't include a `404.php`, you should create one. To create simple 404 page, follow these steps:

1. Create a new file with your favorite editor.
2. Name it `404.php`
3. Paste the following code in the file:

```
<?php get_header(); ?>
<div id="content" class="narrowcolumn">
<h2 class="center">Error 404 - Not Found</h2>
</div>
<?php get_sidebar(); ?>
<?php get_footer(); ?>
```
4. Save the file to your active theme's directory, and you're done!

How it works...

WordPress features an interesting template hierarchy mechanism. When a 404 error appears, WordPress automatically looks for a file named `404.php`. If such a file exists, it is displayed.

Using a static page as a homepage

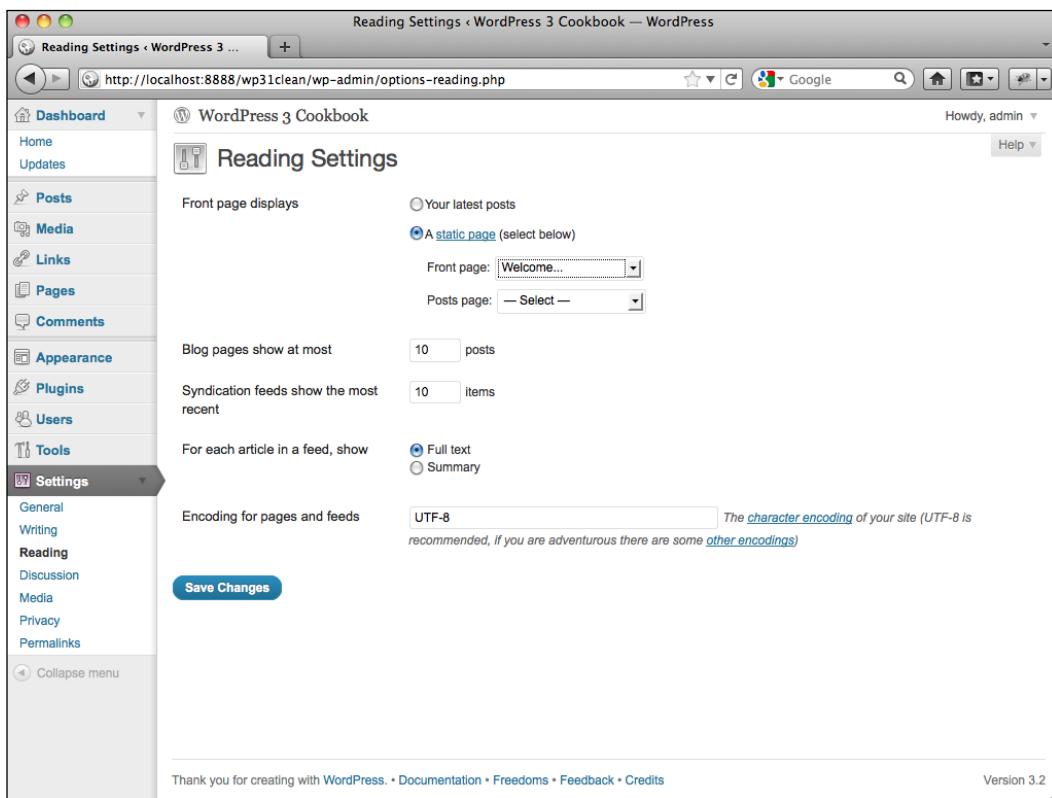
Quite a few WordPress sites use the list of most recent posts as the site homepage. This is the default option and a common solution for blog sites. However, if you prefer to use a static page as a homepage, you can do so easily. In this recipe, we will learn how to set up a static page as a homepage for your site.

Getting ready

Nothing special is needed here. The possibility of using a static page as a homepage is built-in in the WordPress.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Pages** menu.
3. Click on the **Add New** option.
4. Create a new page for use as your site's homepage. Name it **Welcome...**
5. Publish your new **Welcome...** page.
6. Click on the **Settings** menu.
7. Click on the option **Reading**.
8. You'll see a title saying **Front page displays**. Select the radio button marked **A static page**.
9. Choose your new front page from the drop-down list marked **Front page**: The following screenshot shows the settings:



10. Click the **Save Changes** button.

How it works...

WordPress allows you to choose your home page content. You can use either the list of posts, or a static page of your choice. This second option gives you quite a few possibilities, in particular if you'd like to create a non-blog site using WordPress.

Adding custom styles to your theme

Now that you know how to create a child theme and are able to use post formats and custom page templates, you will need to be able to insert new styling into your themes. The basic principles are straight out of CSS 101. In this recipe we look at the simple steps needed to add a custom style to your theme.

Getting ready

We're going to do everything in this recipe using only the tools inside your WordPress dashboard. For the sake of simplicity, we're using the default TwentyEleven theme. The principles demonstrated will work for anything, though the code may vary.

How to do it...

There are two parts to this recipe: First, you need to wrap the area you want to affect with the styling. Second, you need to define the CSS selector in the theme's stylesheet. For this example, let's modify the header of the page to add a new div we can use to control the area around the top menu:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the **Editor** option.
4. Find the **Template** named **Header** and click on it.
5. Find the tag `<hgroup>`
6. Let's add some styling to this area. Modify the tag to look like this: `<hgroup id="headhgroup">`
7. Click the **Update File** button.

That completes the first step. The new style has been added and whatever we define for `#headhgroup` will now impact the area wrapped by the `<hgroup>` tag. Let's now add a definition for the selector:

1. Click on **Stylesheet**.

2. Scroll to the bottom of the file and let's add a new selector:

```
#headhgroup {  
    background: #666666;  
}
```

3. Click on the **Update File** button.

If you visit the front end of your website now and refresh the page in your browser, you should see a light gray colored background in the head of your pages.

How it works...

We're simply using the power of HTML and CSS. We've defined a selector in the theme's stylesheet, then applied it to a section of the code in the `header.php` file.

Making your site mobile device friendly

With the ubiquity of handheld and portable devices and with ready access to WiFi and other connectivity, having a mobile-friendly website is now almost a necessity. While you can go to the effort of building a dedicated mobile site or creating a mobile theme, a new WordPress plugin makes it easy to have a simple and effective mobile-friendly website.

In this recipe, we look at using the WPtouch plugin.



In this example we use the free version of the plugin. There is also a commercial version. Though the free version is fully functional, you will want to look at all the options.

Getting ready

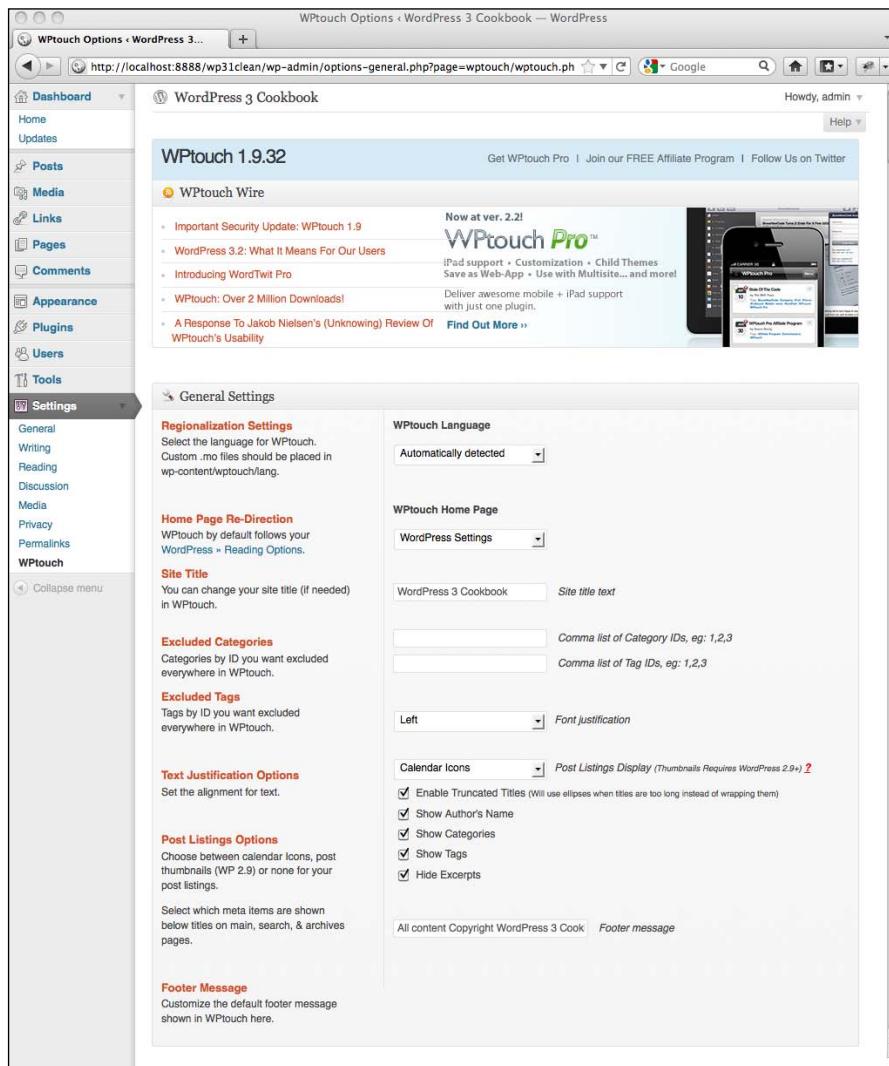
To execute this recipe, you will also need to install the WPtouch plugin. You will need to install this plugin before you can get started. Search for **WPtouch** inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.



You can learn more about this plugin by visiting the plugin's page on Wordpress.org at <http://wordpress.org/extend/plugins/wptouch/>.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **WPtouch**.
4. In the **General Settings** portion of the page, seen in the screenshot below, you can set the basic configuration options you need for the plugin to display your site. The numerous advanced options seen further down the **WPtouch** configuration page allow you to tailor things more closely to your needs.



5. When you've finished, click **Save Options**.

Now, when a visitor accesses your site from a mobile device, WPtouch will automatically display the contents in a mobile-friendly format.



The WPtouch plugin has been tested with iPhone, iPod Touch, Google Android, Blackberry Storm, Blackberry Torch, Palm Pre, and Samsung touch.



How it works...

Though WPtouch seems a great deal like a theme, the detection of the mobile device and the formatting of the contents on the fly is the byproduct of a plugin. When a mobile device visits the site, the plugin automatically detects it and feeds that device a different set of theme files. As a result, the installation of this plugin will have no impact on the appearance of the site in a browser on a standard resolution monitor.

3

Working with Plugins and Widgets

In this chapter, we will cover:

- ▶ Installing plugins
- ▶ Installing widgets
- ▶ Adding new widget areas to your theme
- ▶ Creating your own widgets
- ▶ Modifying core widgets
- ▶ Displaying tabs on your sidebar
- ▶ Using conditional tags to control widget display
- ▶ Displaying widgets inside of posts and pages

Introduction

Plugins are the key to extending the functionality of your WordPress site. Virtually all WordPress installations run one or more plugins; many run quite a few. Plugins vary in complexity, from adding very simple functionality to very complex plugins that require extensive configuration.

Widgets work hand-in-hand with plugins by allowing you to position discrete bits of simple functionality on your pages. Widgets are often a by-product of plugins; when you install a new plugin, you will often get new widgets that can be used to expose all or part of the plugin's functionality.

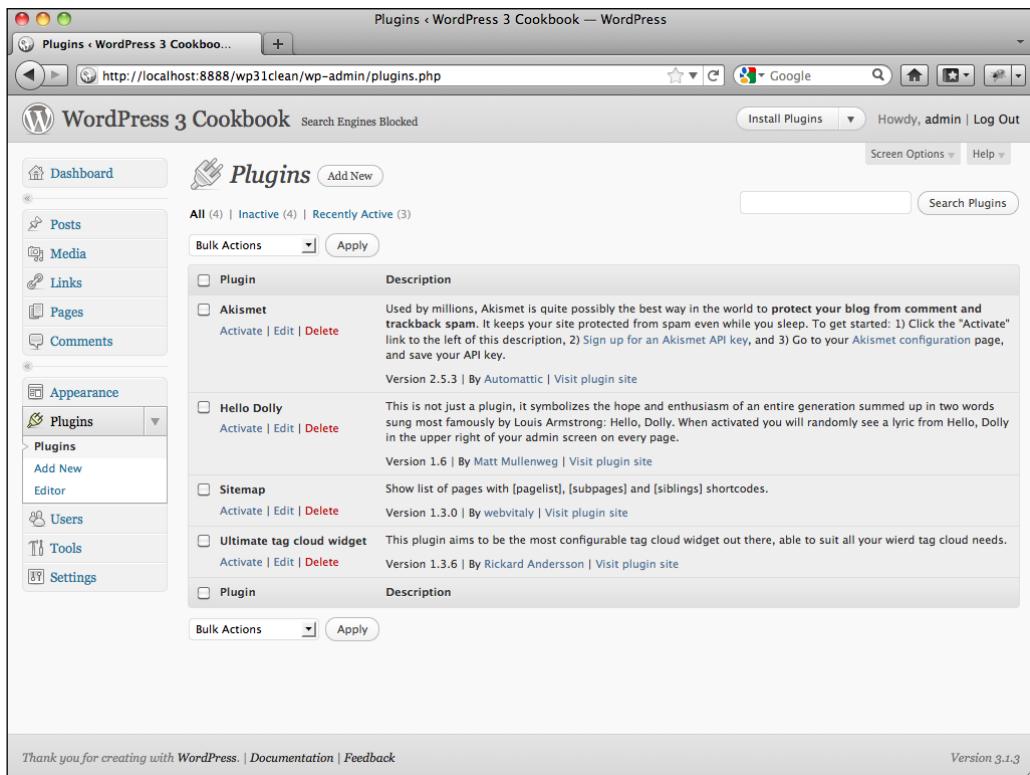
In this chapter, we look at how to extend your site through the strategic use of plugins and widgets.

Installing plugins

The first step to adding new functionality to your site is to learn how to install new plugins for your WordPress site.

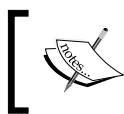
In this recipe we look at how to install plugins. Installation can be either automatic or manual; both are discussed in this recipe.

The key interface for plugin management, including installation, is the Plugins Manager, shown in the next screenshot. The Plugins Manager exists in all WordPress sites and can be accessed by clicking on the **Plugins** menu.



Getting ready

As noted above, installing a WordPress plugin can be done one or two ways: either manually or automatically. If you use the automatic installer, seen at the top of the Plugins Manager in the preceding screenshot, then you need no additional tools to complete the recipe. If on the other hand, you wish to install a plugin manually, you will need the ability to add files to your WordPress installation on your server.



You can find new plugins by either searching from inside the Plugins Installer in the WordPress dashboard (as explained below), or by visiting [www.Wordpress.org](http://wordpress.org/extend/plugins/) at <http://wordpress.org/extend/plugins/>

Before you install any plugin, you must first check the compatibility of the plugin. If the plugin is not cleared to work with your version of WordPress, you should be very reluctant to install it. If the plugin is not approved for your version of WordPress, it may not function properly or it may introduce security risks.

To identify the compatibility of a plugin, you can either view the plugin's page on the WordPress.org site, or you can click and view details about the plugin from inside the plugin installer in the Plugins Manager. The following screenshot shows how the version data appears in both situations:

The screenshot displays a plugin page from WordPress.org. At the top right is a large orange "Download Version 3.1" button. To its left, a red "Install Now" button is visible. The main content area is divided into several sections:

- FYI** (Information):
 - Version:** 3.1
 - Author:** [Newton Horta](#)
 - Last Updated:** 377 days ago
 - Requires WordPress Version:** 2.8 or higher
 - Compatible up to:** 3.0.5
 - Downloaded:** 22,306 times
 - [WordPress.org Plugin Page »](#)
 - [Plugin Homepage »](#)
- Average Rating** (31 ratings):
- Compatibility**:
 - WordPress: 3.2
 - + Plugin: 3.1
 - = Not enough data
 - 0 people say it works.
 - 0 people say it's broken.

Working with Plugins and Widgets

On the left you can see the version information presented in the Plugins Installer inside the WordPress dashboard. On the right is the information as it appears on www.WordPress.org.

How to do it...

To install a plugin automatically, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Plugins** menu.
3. Click on the option **Add New**.
4. On the screen that appears, enter a search term in the **Search** field.
5. Click on the **Search Plugins** button.
6. On the search results screen, shown below, review the options. You can click on the **Details** link to see a pop-up description of the plugin, including the compatibility information.
7. Once you find the plugin you want, click on the **Install Now**.
8. Once the system completes installation, you will be prompted to **Activate** the plugin. You can either do so now, or at a later point from the Plugins Manager.

The screenshot shows the WordPress 3 Cookbook dashboard with the 'Install Plugins' page open. The left sidebar includes links for Dashboard, Posts, Media, Links, Pages, Comments, Appearance, Plugins (which is selected), Add New, Editor, Users, Tools, and Settings. The main content area has a title 'Install Plugins' with a search bar and a table of results. The table columns are Name, Version, Rating, and Description. Three plugins are listed:

Name	Version	Rating	Description
sidebarTabs	3.1	★★★★★	Put widgets into tabbed interface in sidebar. Features Multiple instances; The layout of each instance can be defined as horizontal or vertical; Layout of tabs > horizontal instance: fixed without icons, fixed with icons, scrollable without icons and scrollable with icons; Possibility to select the corners of the tabs between 18 options generated by jQuery Corner plugin; Definition of font ... By Newton Horta.
Fun with Sidebar Tabs	0.5.4	★★★★★	This plugin is no longer maintained or supported. It has not been tested with the most recent version of WordPress and will likely cease to function entirely after WordPress 2.8. If you like this plugin and want to take over development of it please let me know. This plugin adds a new dynamic sidebar which displays the widgets in it as tabs, instead of as a list. It adds a widget, and a template ... By Andrew Rickmann.
Tabber Tabs Widget	0.37	★★★★★	The easiest way to add a tabbed content area in your sidebar. If you can use widgets... then you can use this plugin. (Of course, your theme must support widgets) Want to see what it looks like? Check out the Screen Shots. By SlipFire LLC..
Tabbed Widgets	1.3.1	★★★★★	Tabbed interfaces can save a lot of vertical space and make your website look less cluttered. Accordion type tabs are particularly useful if you want to have longer tab titles or more tabs that wouldn't otherwise fit into the given horizontal width. Features:

To install a plugin manually, follow these steps:

1. Obtain a copy of the archive file containing your plugin; typically this is done from the www.WordPress.org Plugins page.
2. Extract the plugin locally on your computer.
3. Access the filesystem of your WordPress installation.
4. Navigate to the directory /wp-content/plugins.
5. Copy the directory containing your plugin files to the directory on your server.
6. Log in to your WordPress **Dashboard**.
7. Click on the **Plugins** menu.
8. Scan the list of plugins to find the name of the plugin you have just installed.
9. Click on **Activate** to use the plugin.

At this point, your plugin should be ready to go. At any time, you can visit the Plugins Manager to disable or delete your plugin.

How it works...

When a plugin is installed, its name is registered in the WordPress database, which means that the plugin is active and WordPress will let it execute the tasks it was developed for.

Plugins use hooks (we will discuss this later) and the Plugin API, which provide useful PHP functions to modify WordPress default functions.

There's more...

If you decide to stop using a plugin you should de-activate it and delete it from your system. Leaving unused plugins on your site not only increases your maintenance burden, but also exposes your site to security risk. Moreover, in some situations, you may install a plugin only to find that it does not work properly, or even worse, causes a problem for your site. If that happens, you will need to remove the plugin.

In WordPress, deleting a plugin is very easy, and you can always re-install it again if you decide to use it in the future.

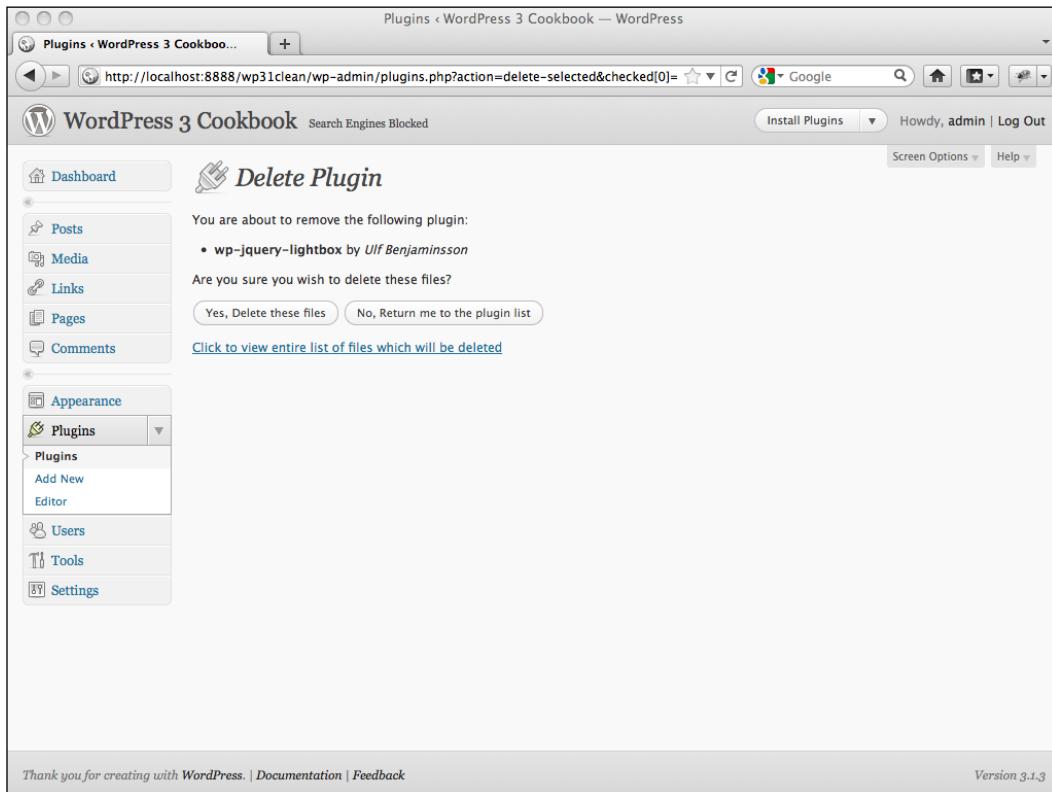
Deleting installed plugins automatically

The following steps can be used to delete a plugin automatically:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Plugins** menu.
3. Scan the list of plugins to find the name of the plugin you want to remove.

Working with Plugins and Widgets

4. Make sure the plugin is de-activated. If it is still active, then click on the **Deactivate** link.
5. Once deactivated, you can remove the plugin completely by clicking on the **Delete** link.
6. After you click the link, you will be prompted to confirm the decision, as seen in the following screenshot:



7. To confirm the delete, click on the **Yes, Delete these files** button. To cancel and return to the Plugins Manager, click on the **No, Return me to the plugin list** button.

Deleting installed plugins manually

The following steps can be used to delete a plugin from your system manually:

1. Access the filesystem of your WordPress installation.
2. Navigate to the directory `/wp-content/plugins`.
3. Find the directory containing the file of the plugin you need to disable.
4. Rename the directory, which will force the system to deactivate the plugin.
5. Check your site; if it is working properly, you may now delete the directory containing the plugin's files.
6. Log in to your WordPress **Dashboard**.
7. Click on the **Plugins** option on the menu.
8. Scan the list of plugins to see if the plugin has been removed.



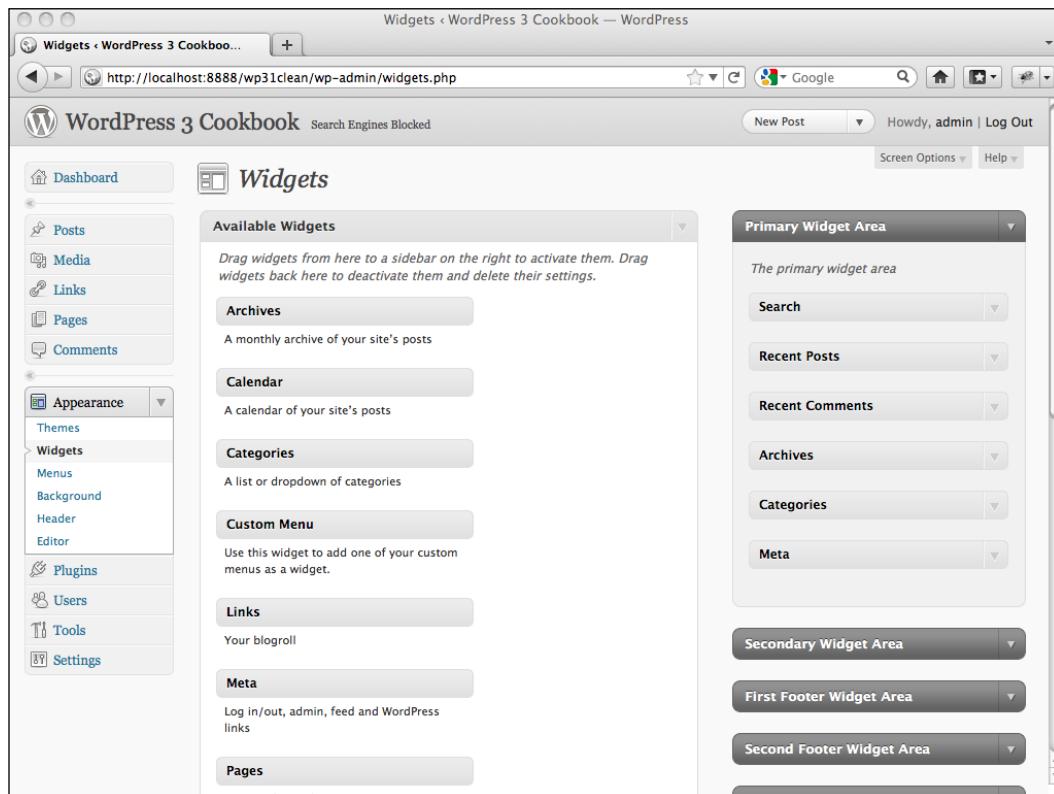
Some plugins modify the WordPress database. If you wish to completely remove plugins that modify the database, you will need to also access your site's database, identify the information inserted by the plugin, and then remove it from the database. Check the plugin's documentation to determine whether this is necessary.

Installing widgets

Now that we have studied how to install WordPress plugins and what plugins can do for you, let's have a look at widgets. A widget does the same thing as a plugin, that is, it adds more functionality to your site. Widget installation, however, works differently than plugin installation. Typically, widgets are by-products of plugins. Widgets are not created independently and installed independently.

To use widgets on your site, you do have to take some steps. Assuming that your theme is widget-ready, you can visit the Widgets Manager screen, shown in the next screenshot, and simply drag a widget to a widget-ready zone.

Most all themes are widget-ready, meaning that the theme has defined zones into which you can manually place widgets from within the Widgets Manager. If your theme does not have pre-defined zones into which you can add widgets, you will need to modify the theme's files to add this functionality. Modifying your theme to add new widget areas is discussed below in the section *Adding Widget Areas to your Theme*.



Getting ready

There are no special requirements to complete this recipe. Everything you need is found inside the WordPress dashboard.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.

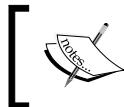
3. Click on the **Widgets** option.
4. On the Widgets Manager page, find the widget you wish to use.
5. Click and drag the widget to any of the widget areas you see on the right hand column.
6. Click the arrow on the title bar of the widget to open the widget and view the configuration options.
7. Edit its parameters as desired.
8. Click on the **Save** button on the widget and you're done!

See also

- ▶ *Adding widget areas to your theme*
- ▶ *Using widget logic to control widget display*
- ▶ *Displaying widgets inside of posts and pages*

Adding widget areas to your themes

Widgets are useful and can help you to achieve a lot of tasks on your site. Having a choice of widget areas in your theme means you have options. Sometimes you find, however, that your theme needs a widget area where one does not exist. It's an easy problem to resolve; all you need to do is add a bit of code to your theme and you can add the additional widget areas you desire.



Many WordPress and third party documents refer to widget areas as 'dynamic sidebars.' These two names mean the same thing in this context.

Getting ready

To complete the following recipe, all that you need is a code editor and access to the theme files of your WordPress installation.

How to do it...

Let's add a new widget area to the right sidebar of the default TwentyTen theme. To accomplish this you will need to accomplish two tasks: first, register the new widget area, and then place it in the theme files.

1. Open your theme's `functions.php` (or create a new one if your theme does not include one) and let's register a new widget area called `tailormade`. To do this, add the following lines of code to the file:

```
if ( function_exists('register_sidebar') ) {
    register_sidebar(array(
        'name' => 'tailormade',
        'before_widget' => '<div id="my-mega-menu-widget">',
        'after_widget' => '</div>',
        'before_title' => '<h3 class="widget-title">',
        'after_title' => '</h3>',
    ));
```

```
}
```

2. Save the file.
3. Open your theme's `sidebar.php` file and add the following code where you want the new widget area to appear:

```
<?php if ( !function_exists('dynamic_sidebar') ) dynamic_sidebar('tailormade') : ?> <?php endif; ?>
```

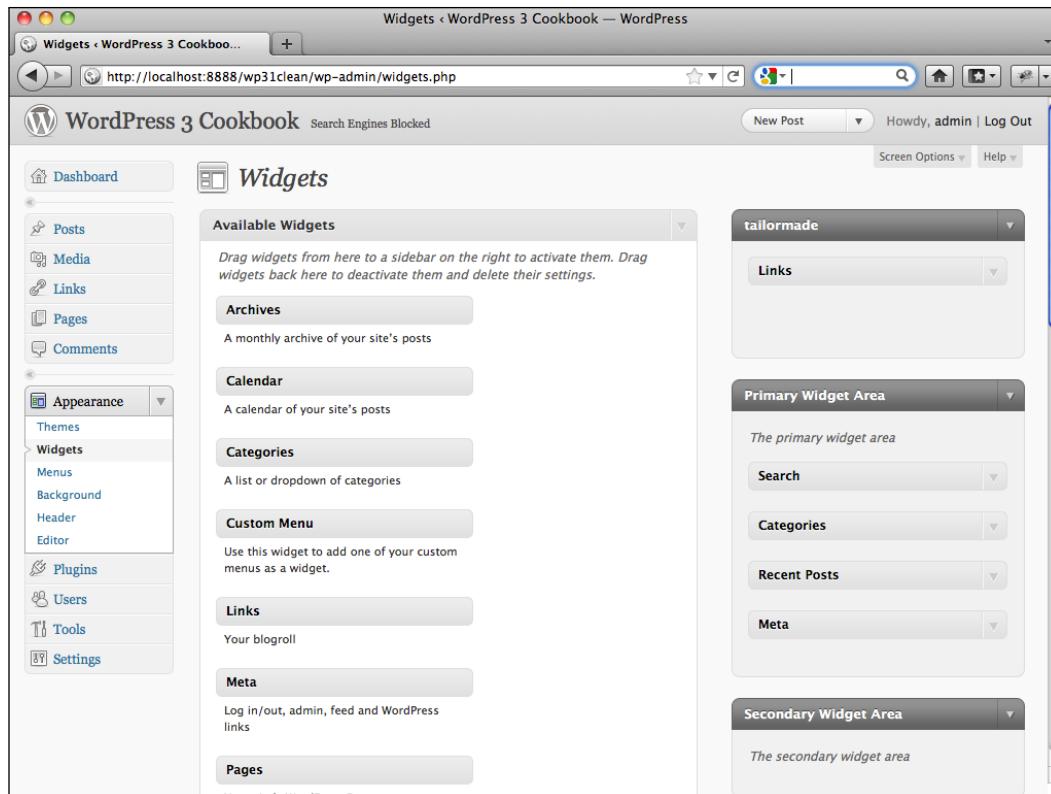


Though it is not absolutely necessary, WordPress coding standards prefer widgets to be placed inside of lists. Best practices would dictate that you make your new widget area a list item `` of an unordered list ``. Also, try not to hard code unnecessary styling, as it may have undesired results when it interacts with the widget's styling.

4. Save the file.

The preceding example is basic, but the principles demonstrated are applicable to other scenarios. You can use the technique to add multiple widget areas anywhere in your theme's templates.

As a result of this code, you now have a new widget area available on the dashboard's widgets page, as shown in the next screenshot. You will also have widget output visible on the front-end of the site.



How it works...

When we were adding a single widget-ready zone, we used the `dynamic_sidebar()` function. This is why I used `dynamic_sidebar('tailormade')` in the sidebar template. Then, in the `functions.php` file, I used the `register_sidebar()` function, which can only handle a single widget-ready zone.



To learn more about the `register_sidebar()` function and the parameters available, see the WordPress Codex at http://codex.wordpress.org/Function_Reference/register_sidebar

See also

- ▶ *Installing widgets*
- ▶ *Using widget logic to control widget display*
- ▶ *Displaying widgets inside of posts and pages*

Creating your own widget

Even though there are a lot of quality WordPress widgets available, sometimes you will find that there isn't one that exactly fits the requirements. In such a case, you'll have to create your own widget. It may sound difficult at first, but if you have any programming experience it is very easy.

Creating a widget requires creating the plugin that powers the widget; this chapter is, therefore, not about simply creating a widget, but also about creating a plugin. We will create a plugin, which in turn provides us with a widget.

Getting ready

To create your very own widget, you need nothing but a text editor and access to the WordPress installation on your server.

How to do it...

1. Find the directory `/wp-content/plugins`.
2. Create a new directory inside and name it `simplewidget`.
3. Create a blank file and name `simplewidget.php`.
4. Save it to the `wp-content/plugins/simplewidget` directory.
5. Open the `simplewidget.php` file for editing.
6. Paste into `simplewidget.php` the following code:

```
<?php
/*
Plugin Name: A Simple Widget Example

Plugin URI: http://yoursite.com/

Version: 1.0

Description: Demonstrate how to create a simple widget.

Author: The Great Gazoo

Author URI: http://yoursite.com/
*/

/**Creates new class to extend the system's WP_Widget class*/
class simple_widget extends WP_Widget {
```

```

        function simple_widget() {
            $widget_ops = array('description' => 'Displays the Packt
Publishing logo with a link to the site.');
            $this->WP_Widget('simple_widget', 'A Simple Widget',
$widget_ops);
        }

/**Implement the form() function, which creates the widget's
editing options for admin.*/

        function form($instance) {
            $instance = wp_parse_args((array) $instance, array( 'title'
=> '' ));
            $title = $instance['title'];
        ?>
            <p>
                <label for="<?php echo $this->get_field_id('title'); ?>"><?php
_e('Title:'); ?></label>
                <input class="widefat" id="<?php echo $this->get_field_
id('title'); ?>" name="<?php echo $this->get_field_name('title');
?>" type="text" value="<?php echo attribute_escape($title); ?>" />
            </p>
            <?php
        }

/**Implements the update() function, which allows us to set
options for the widget*/

        function update($new_instance, $old_instance) {

            $instance = $old_instance;
            $instance['title'] = $new_instance['title'];
            return $instance;
        }

/**Implements the widget() function, where we build the widget
output.*/

        function widget($args, $instance) {
            extract($args, EXTR_SKIP);

            echo $before_widget;
            $title = empty($instance['title']) ? '' : apply_
filters('widget_title', $instance['title']);

```

Working with Plugins and Widgets

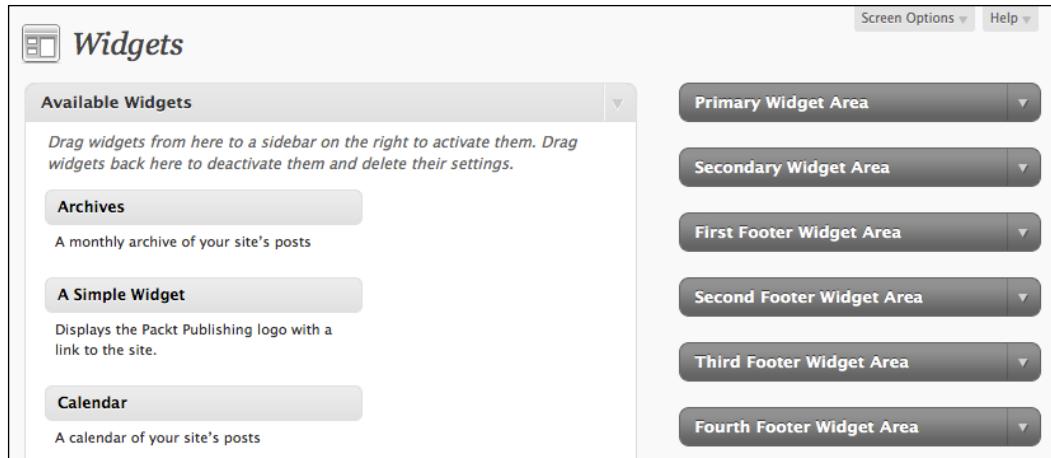
```
if (!empty($title))
    echo $before_title . $title . $after_title;;
    echo '<a href="http://www.packtpub.com"></a>';

    echo $after_widget;
}
}

/**Time to register the widget*/

add_action( 'widgets_init', create_function('', 'return register_
widget("simple_widget");') );
?>
```

The plugin will now appear in your Plugins Manager. Activate and you will find a new widget in your list of widgets, seen as follows.



Once you place the widget into a visible widget area, you will be able to see your first custom widget on your site.

How it works...

Now that we have created a working widget, let's take a function-by-function look at its code.

First, you have to tell WordPress that this file is a widget or a plugin by adding the PHP comments at the beginning of the file. The information will be used by your WordPress dashboard when you activate the widget. If WordPress can't find these comments, the file won't be recognized.

The first actual code begins with declaring our new class `simple_widget` and specifying that it is an extension of the WordPress system's `WP_Widget`. This first block of code also includes the function `simple_widget`, where we specify the description and name seen in the admin system.

The next function is `form()`. As the name implies, this function sets up any configuration options that will be available to the admin in the Widgets Manager. In this case, we have only given the administrator the option to specify a title for the widget.

The `update()` function is needed to enable the admin to make changes to the widget and then see those reflected in the widget output. In this case, the only option needed relates to the title.

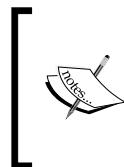
Next comes the `widget()` function where we build the widget output for the front-end of the site. In this case, we tell the function to print the title, followed by an image file which has a link attached to it.

The last bit of code will register our widget and add it to the admin interface; the user will be able to drag and drop it into one of his widget-ready zones.

Modifying core widgets

In the previous recipes, we showed you how to create new widgets and how to add new widget areas to your theme. As you know, WordPress comes with a number of built-in widgets including the categories list, the search form, and so on. While many of the default widgets are useful, they are also often lacking in any meaningful configuration options. If you want one of the default widgets to look or function differently, you will need to either find another solution or modify the widget.

In this recipe, we'll show you how to modify WordPress core widgets – without editing the core files.



While it is possible to change your site's core widgets by directly editing the files that produce them, this is not recommended. The better choice is to create copies of them and make your modifications there. If you modify the core files, you run the risk of over-writing your changes when you update or upgrade your site.

Getting ready

To execute this recipe, you will need a code editor and access to the files of your WordPress site.

How to do it...

Let's say that you'd like to use the WordPress Meta widget, but you'd like to remove the link to WordPress.org.

1. Access your WordPress installation on your server.
2. Find and open the file `wp-includes/default-widgets.php`.
3. Search through the code in that file and find the `Meta` widget class, which appears as follows:

```
/**  
  
 * Meta widget class  
 *  
  
 * Displays log in/out, RSS feed links, etc.  
 *  
 * @since 2.8.0  
 */  
class WP_Widget_Meta extends WP_Widget {  
    function WP_Widget_Meta() {  
        $widget_ops = array('classname' => 'widget_meta',  
        'description' => __("Log in/out, admin, feed and WordPress  
links") );  
        $this->WP_Widget('meta', __('Meta'), $widget_ops);  
    }  
  
    function widget( $args, $instance ) {  
        extract($args);  
        $title = apply_filters('widget_title',  
empty($instance['title']) ? __('Meta') : $instance['title'],  
$instance, $this->id_base);  
  
        echo $before_widget;  
        if ( $title )  
            echo $before_title . $title . $after_title;  
    ?>  
  
    <ul>  
        <?php wp_register(); ?>
```

```

<li><?php wp_loginout(); ?></li>

<li><a href="<?php bloginfo('rss2_url'); ?>" title="<?php
echo esc_attr__('Syndicate this site using RSS 2.0!'); ?>"><?php
_e('Entries <abbr title="Really Simple Syndication">RSS</abbr>');
?></a></li>

<li><a href="<?php bloginfo('comments_rss2_url'); ?>" title="<?php echo
esc_attr__('The latest comments to all posts
in RSS!'); ?>"><?php _e('Comments <abbr title="Really Simple
Syndication">RSS</abbr>'); ?></a></li>

<li><a href="http://wordpress.org/" title="<?php echo
esc_attr__('Powered by WordPress, state-of-the-art semantic
personal publishing platform.');?>>WordPress.org</a></li>

<?php
    echo $after_widget;
}

function update( $new_instance, $old_instance ) {
    $instance = $old_instance;
    $instance['title'] = strip_tags($new_instance['title']);

    return $instance;
}

function form( $instance ) {
    $instance = wp_parse_args( (array) $instance, array( 'title'
=> '' ) );
    $title = strip_tags($instance['title']);
    ?>
        <p><label for="<?php echo $this->get_field_id('title');
?>"><?php _e('Title:'); ?></label> <input class="widefat"
id="<?php echo $this->get_field_id('title'); ?>" name="<?php echo
$this->get_field_name('title'); ?>" type="text" value="<?php echo
esc_attr($title); ?>" /></p>

<?php
}
}

```

4. Copy the Meta widget code.
5. Create a new directory inside wp-content/plugins. Name it metamod.

6. Create a new file inside the `metamod` directory and name it `metamod.php`.
7. Paste the Meta widget code into the `metamod.php` file.
8. We're going to modify the code to accomplish several tasks: We're going to give the function a unique name, include a proper plugin header, make our changes to exclude the `wordpress.org` link, and finally register the new widget. The modified code will look like this; the changes are explained in the text after the code:

```
<?php
/*
Plugin Name: Meta Mod

Plugin URI: http://yoursite.com/

Version: 1.0

Description: Holds modified version of the Meta widget.

Author: The Great Gazoo

Author URI: http://yoursite.com/
*/
```

```
class Meta_Mod extends WP_Widget {

    function Meta_Mod() {
        $widget_ops = array('classname' => 'widget_meta',
'description' => __( "Log in/out, admin, feed and WordPress
links" ) );
        $this->WP_Widget('meta', __('Meta'), $widget_ops);
    }

    function widget( $args, $instance ) {
        extract($args);
        $title = apply_filters('widget_title',
empty($instance['title']) ? __('Meta') : $instance['title'],
$instance, $this->id_base);

        echo $before_widget;
        if ( $title )
            echo $before_title . $title . $after_title;
    }
}

<ul>
```

```

<?php wp_register(); ?>
<li><?php wp_loginout(); ?></li>

<li><a href=<?php bloginfo('rss2_url'); ?>" title=<?php echo esc_attr__('Syndicate this site using RSS 2.0!'); ?>"><?php _e('Entries <abbr title="Really Simple Syndication">RSS</abbr>'); ?></a></li>

<li><a href=<?php bloginfo('comments_rss2_url'); ?>" title=<?php echo esc_attr__('The latest comments to all posts in RSS!'); ?>"><?php _e('Comments <abbr title="Really Simple Syndication">RSS</abbr>'); ?></a></li>
</ul>
<?php
    echo $after_widget;
}

function update( $new_instance, $old_instance ) {
    $instance = $old_instance;
    $instance['title'] = strip_tags($new_instance['title']);

    return $instance;
}

function form( $instance ) {
    $instance = wp_parse_args( (array) $instance, array( 'title' => '' ) );
    $title = strip_tags($instance['title']);
?>
    <p><label for=<?php echo $this->get_field_id('title'); ?>><?php _e('Title:'); ?></label> <input class="widefat" id=<?php echo $this->get_field_id('title'); ?>" name=<?php echo $this->get_field_name('title'); ?>" type="text" value=<?php echo esc_attr($title); ?>" /></p>

<?php
}
}

/**Time to register the widget*/
add_action( 'widgets_init', create_function('', 'return register_widget("Meta_Mod");') );
?>

```

How it works...

The idea behind this recipe is to take the code from a default widget, use it as the basis of a new plugin, which will then provide us with a widget we can modify as we wish. Once installed, we will use the new widget and remove the default widget from display on the site.

The process is very straightforward. The vast majority of the work is simply copying the existing widget code and pasting it into a new file. We have to change the name of the function so that it does not conflict with the original function. To make that change, we simply modify the beginning of the code to make this change:

```
class WP_Widget_Meta extends WP_Widget {  
  
    function WP_Widget_Meta() {
```

It becomes the following:

```
class Meta_Mod extends WP_Widget {  
  
    function Meta_Mod() {
```

As we saw in the previous recipe, creating a widget requires a proper header, so we add the following to the top of the file:

```
<?php  
/*  
Plugin Name: Meta Mod  
  
Plugin URI: http://yoursite.com/  
  
Version: 1.0  
  
Description: Holds modified version of the Meta widget.  
  
Author: The Great Gazoo  
  
Author URI: http://yoursite.com/  
*/
```

Finally, to make the plugin work, we need to register our new function. To accomplish this, we added the following to the end of the file:

```
/**Time to register the widget*/

add_action( 'widgets_init', create_function('', 'return register_
widget("Meta_Mod");') );

?>
```

That's all there is to make the plugin and widget work, but our original goal was to delete the link to WordPress.org, so we also need to edit a portion of the code, as follows:

```
<ul>

<?php wp_register(); ?>
<li><?php wp_loginout(); ?></li>

<li><a href=<?php bloginfo('rss2_url'); ?>" title=<?php
echo esc_attr(__('Syndicate this site using RSS 2.0')); ?>"><?php
_e('Entries <abbr title="Really Simple Syndication">RSS</abbr>'); ?><
a></li>

<li><a href=<?php bloginfo('comments_rss2_url'); ?>" title=<?php echo esc_attr(
__('The latest comments to all posts
in RSS')); ?>"><?php _e('Comments <abbr title="Really Simple
Syndication">RSS</abbr>'); ?></a></li>

<li><a href="http://wordpress.org/" title=<?php echo esc_attr(
__('Powered by WordPress, state-of-the-art semantic personal
publishing platform.')); ?>">WordPress.org</a></li>

<?php wp_meta(); ?>
</ul>
```

This becomes the following:

```
<ul>

<?php wp_register(); ?>
<li><?php wp_loginout(); ?></li>

<li><a href=<?php bloginfo('rss2_url'); ?>" title=<?php
echo esc_attr(__('Syndicate this site using RSS 2.0')); ?>"><?php
_e('Entries <abbr title="Really Simple Syndication">RSS</abbr>'); ?><
a></li>
```

```
<li><a href=<?php bloginfo('comments_rss2_url') ; ?>"  
title=<?php echo esc_attr__('The latest comments to all posts  
in RSS'); ?>"><?php _e('Comments <abbr title="Really Simple  
Syndication">RSS</abbr>'); ?></a></li>  
</ul>
```

Once these changes are done, you will find a new plugin on your site. Once you activate it, you will have a new widget named Meta Mod.



You will also still have the original Meta widget, which has not been changed.



Displaying tabs on your sidebar

If you are like many site owners, there are a number of items you would like to display in your widget areas. The problem is, if you try to put too many items into a single widget area, the area can become quite lengthy or crowded, which isn't visually appealing.

In this recipe we look at one possible solution for this problem: Implementing tabbed widgets.

Getting ready

To execute this recipe, you will need to install the Tabbed Widgets plugin. You will need to install this plugin before you can get started. Search for **Tabbed Widget** inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.



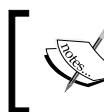
You can learn more about the plugin by visiting the developer's website at <http://konstruktors.com/projects/wordpress-plugins/tabbed-accordion-widgets/>



How to do it...

Though Tabbed Widgets is a plugin, once you activate it, all other work occurs in the Widgets Manager. Widget placement and configuration works a bit differently than usual, explained as follows:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Select the option **Widgets**.
4. Click and drag the **Tabbed Widget** widget to the widget area where you wish it to appear.



There is a new widget area named **Invisible Widget Area**. Drag into that widget area any widgets you want to appear in the new Tabbed Widget.

5. Next, open the **Tabbed Widget**. The following screenshot shows what it will look like:

The screenshot shows the WordPress 'Widgets' screen under the 'Appearance' menu. On the left, there's a sidebar with links like Posts, Media, Links, Pages, Comments, Appearance (Themes, Widgets, Menus, Background, Header, Editor), Plugins (Plugins, Add New, Editor), Users, Tools, and Settings. The main area is titled 'Widgets' and contains two sections: 'Available Widgets' and 'Invisible Widget Area'. The 'Available Widgets' section lists various widgets: Archives, Calendar, Categories, Custom Menu, Links, Meta, Pages, Recent Comments, Recent Posts, RSS, Search, and Tabbed Widget. The 'Invisible Widget Area' section contains three widgets: Categories, Recent Comments, and Recent Posts. Below these is the 'Primary Widget Area' which contains a 'Search' widget. On the right, the 'Tabbed Widget' settings are displayed, showing five tabs: Tab 1 (Categories: Categories, Title: Categories), Tab 2 (Recent Comments: Recent, Title:), Tab 3 (Recent Posts: Recent Posts, Title:), Tab 4 (, Title:), and Tab 5 (, Title:). There are options to 'Show Title', 'Style as: tabs or accordion', and 'Default start tab'. At the bottom are 'Delete | Close' and 'Save' buttons.

6. Select what you want to appear in each tab.
7. Select the style of the appearance, either tabs or accordion style.

8. Select any other configuration options you want to use.
9. Click on the **Save** button.

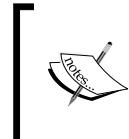
How it works...

The plugin enables you to stack multiple widgets into the space taken by one. The configuration options allow you to then either display the widgets in a set of horizontal tabs or in a set of vertical accordion menus. The plugin has very little styling, so you will most likely want to style this yourself with a bit of CSS.

Using conditional tags to control widget display

While WordPress widgets are a great way to create pages that are rich in functionality and content, there are times when you want to be able to control which widgets show on which pages. By default, a widget placed in a widget area will appear on all pages of your site. Some themes, like the default TwentyTen, provide the option to show one set of widgets on the home page and a different set on the interior pages, but sometimes you want more variety.

In this recipe, we explore implementing the Widget Logic plugin, which enables the use of WordPress conditional tags in widgets through the Widgets Manager.



Conditional tags are typically used in template files to control the display of items depending on what conditions that page matches. You can learn more about conditional tags on the WordPress Codex at http://codex.wordpress.org/Conditional_Tags

Getting ready

To execute this recipe, you will need to install the Widget Logic plugin. You will need to install this plugin before you can get started. Search for **Widget logic** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



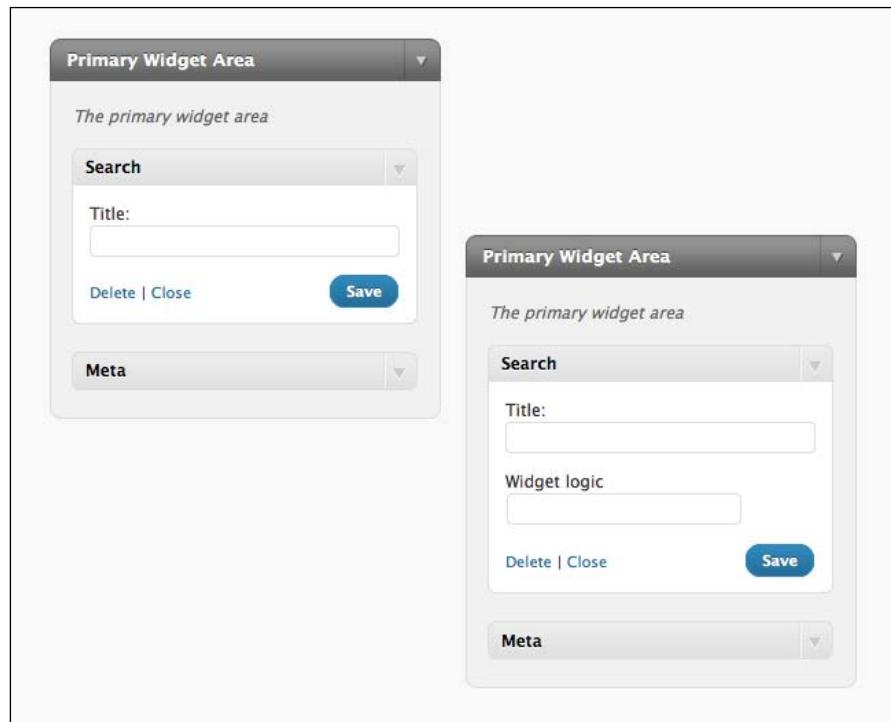
You can learn more about the plugin by visiting the developer's website at <http://freakytrigger.co.uk/wordpress-setup/>

How to do it...

There are no configuration options associated with this plugin. Once it is installed and activated, it is ready to use. The plugin works by adding a new field to all the widgets on your site. That field is labelled simply **Widget logic** and you will use this field to inset the conditional tags that control that particular widget. The screenshot below shows the appearance of the **Search** widget before and after the Widget Logic plugin is activated; note the **Widget logic** field in the second example.

By way of example, assume that you want to only display the Meta widget on the home page of your site. To implement this using the Widget Logic plugin, you would follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click the **Widgets** option.
4. Find the **Meta** widget (by default it is assigned to the Primary Widget Area).
5. Open the options for the Meta widget.
6. In the **Widget logic** field, type the following conditional tag: `is_front_page()`
7. Click on the **Save** button.



How it works...

The Widget Logic plugin simply adds the power of the WordPress conditional tags functionality to your widgets. The entire functionality hinges on conditional tags, which are part of the WordPress API. To use this plugin effectively, you do need to understand the conditional tags options available to you and the proper syntax.

There's more...

In the context of widget display, some of the most useful conditional tags are:

- ▶ `is_author()`: Only displays widget to visitors viewing an Author page. This tag includes variables that also allow you to name specific authors.
- ▶ `in_category()`: Only displays widget on posts within a specific Category.
- ▶ `is_category()`: Only displays widget on Category archive pages. There are variables available which allow you to restrict display to specific categories.
- ▶ `is_front_page()`: Only displays widget on the front page of the website.
- ▶ `is_page()`: Displays widget when any page is being viewed. Variables allow more specificity.
- ▶ `is_page_template()`: Display widget when a specific page template is being used.
- ▶ `is_single()`: Display when any single post, or custom Post Type, is shown.
- ▶ `is_sticky()`: Display widget when a post is marked as sticky.
- ▶ `is_tag()`: Display widget when any tag archive page is displayed. Variables allow you to tailor the display to specific pages.
- ▶ `has_tag()`: Display widget when the post has a specific tag. Variables allow more specificity.



To learn more about conditional tags, visit the WordPress Codex at
http://codex.wordpress.org/Conditional_Tags

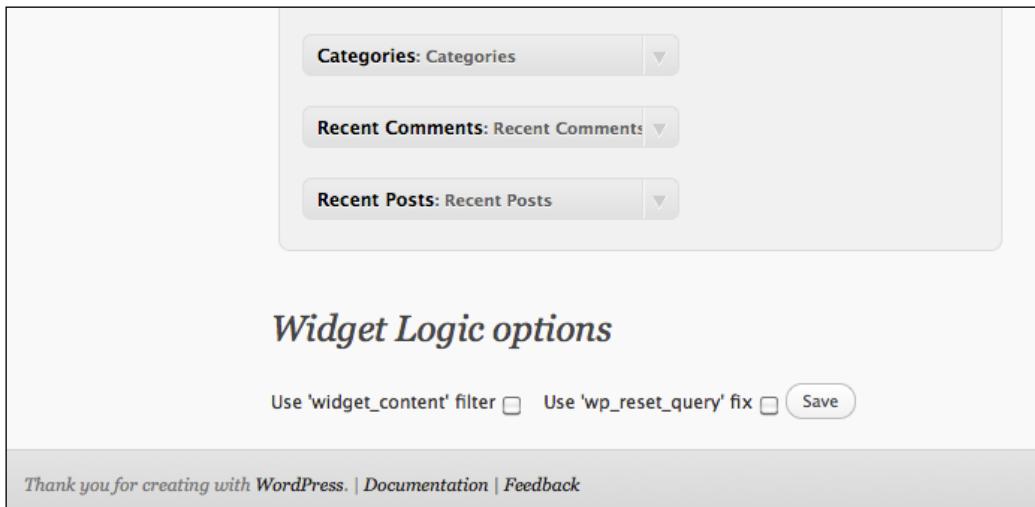
Using the widget content filter

An additional functionality of the plugin is hidden away down on the bottom of the Widgets page. Note the screenshot below, which shows the options in their default state.

The **widget_content filter** is a more advanced functionality. If you enable the **widget_content filter** you can modify the text displayed by any widget on your site by hooking into the filter in your theme's `function.php` file. A typical usage would be to add additional styling to your widgets, thereby giving you more control over their appearance or placement.

The **widget_content filter** is discussed more on the plugin's page on wordpress.org. Visit: http://wordpress.org/extend/plugins/widget-logic/other_notes/

The second checkbox you see in the screenshot below, **Use 'wp_reset_query' fix**, should only be used if you are experiencing display problems with widgets employing widget logic:



See also

- ▶ [Installing widgets](#)
- ▶ [Adding widget areas to your theme](#)
- ▶ [Displaying widgets inside of posts and pages](#)

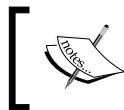
Displaying widgets inside of posts and pages

As we saw earlier in this chapter, widget placement options on your WordPress site are a by-product of your theme. The options you have are a direct result of what the theme developer has provided for you. Wouldn't it be nice if you could put widgets wherever you like, without having to edit your theme files? This recipe addresses part of that need, by opening up your content area for widget placement.

In this recipe, we look at implementing a plugin that enables you to place widgets directly inside of your posts and pages.

Getting ready

To execute this recipe, you will need to install the Widgets on Pages plugin. You will need to install this plugin before you can get started. Search for **Widgets on Pages** inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.

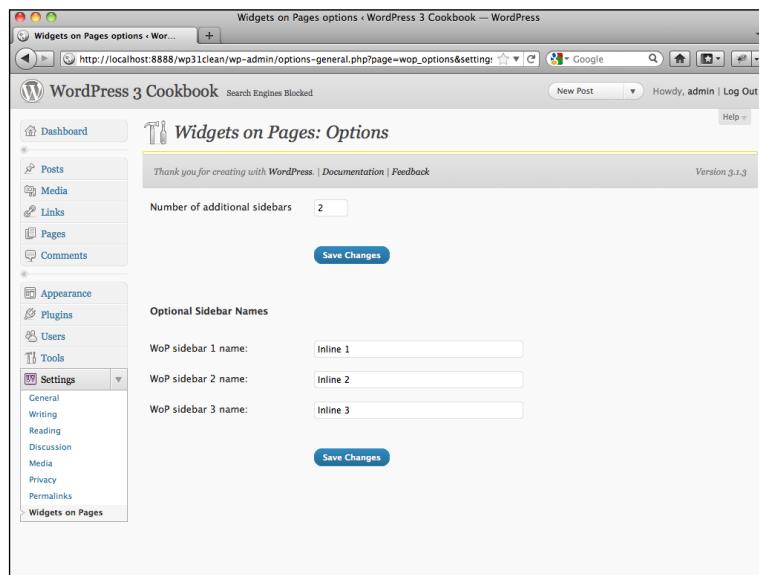


You can learn more about the plugin by visiting the developer's website at <http://gingerbreaddesign.co.uk/wordpress/widgets-on-pages/>

How to do it...

Before you can begin to insert widgets into your pages and posts, you need to first create the extra widget areas you want, then assign widgets to those areas. Follow these steps:

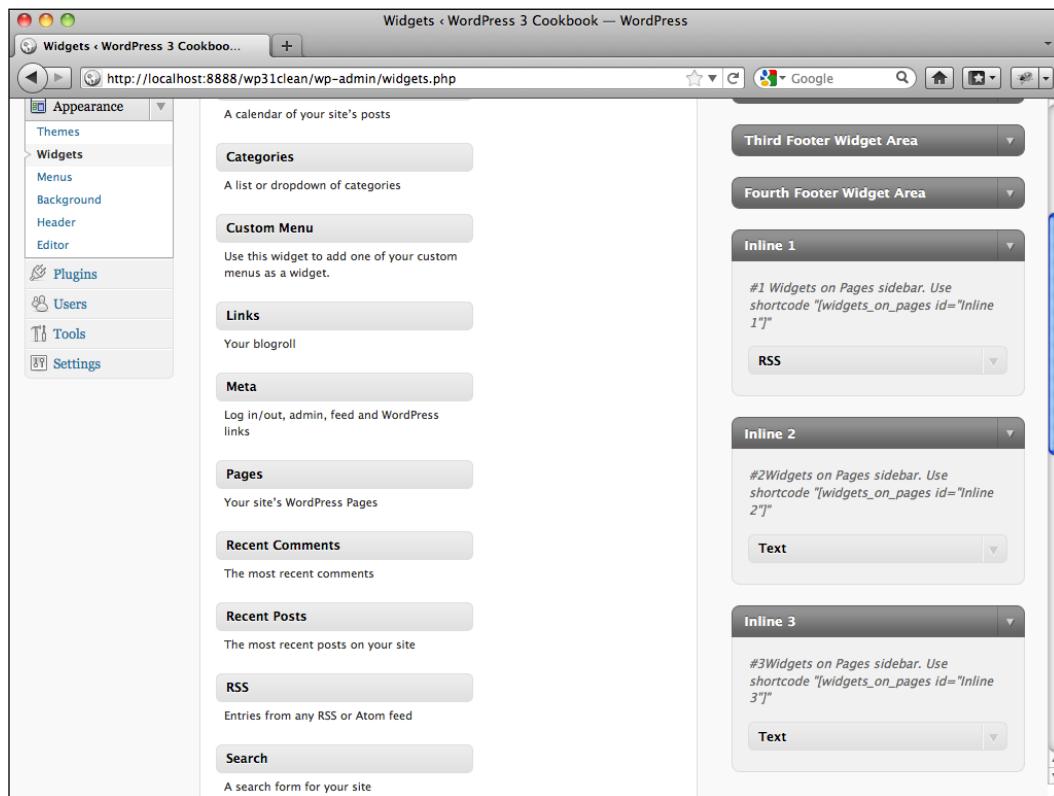
1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **Widgets on Pages**.
4. Select how many additional widget areas (what the plugin calls "sidebars") you need by entering a value in the field labeled **Number of additional sidebars**.
5. Click on **Save Changes**.
6. In the fields provided, give names to each of your new widget areas, as shown in the following screenshot:



7. Click on the **Save Changes** button.

Next, let's assign widgets to the new areas:

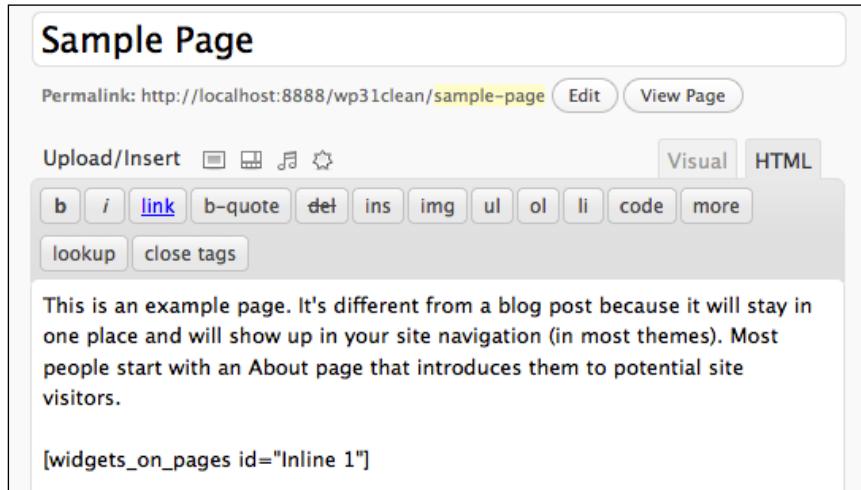
1. Click on the **Appearance** menu.
2. Click on the option **Widgets**.
3. You will see the new widget areas you just created on the bottom right. Click and drag the widgets you want to use into the new widget areas, as shown in the following screenshot:



You are now set to add widgets to your pages or posts. To do so, you will insert WordPress shortcodes into each page or post. Let's assume you want to add an RSS feed to the content area of a specific page. We put the RSS widget into the Inline 1 widget area, above. Now, to get that into the page, follow these steps:

1. Open the page for editing.
2. Switch to the **HTML** editor.

3. Enter the shortcode provided where you want the output to appear. As you can see in the preceding screenshot (view the text in the widget area), the shortcode you will need to use is `[widgets_on_pages id="Inline 1"]`. The following screenshot shows how this would work:



4. Click the **Update** button to save the page.

How it works...

This plugin allows for the ad hoc creation of new widget areas, which the plugin refers to as sidebars. The plugin also creates a specific shortcut for each of the new widget areas. By placing the shortcode inside of pages or posts, you are able to place the custom widget area where you wish.

See also

- ▶ *Installing widgets*
- ▶ *Adding widget areas to your theme*
- ▶ *Using widget logic to control widget display*

4

Customizing Content Display

In this chapter, we will cover:

- ▶ How to work with the WordPress loop
- ▶ How you can retrieve posts from a specific category
- ▶ How to control how many posts you display
- ▶ Retrieving posts by date
- ▶ Showing only those posts published today
- ▶ How to show posts published exactly one year ago
- ▶ How to set up and use multiple loops
- ▶ How to access your post data from outside the WordPress loop
- ▶ How to access permalink information outside the loop
- ▶ How to display thumbnails on your posts, using custom fields
- ▶ How to implement alternating backgrounds for lists of posts
- ▶ How to display posts in a two column layout
- ▶ Creating WordPress shortcodes
- ▶ Enabling shortcode usage within widgets
- ▶ How to add notes to your posts
- ▶ How to enable tagging support for your site's page

Introduction

What is the WordPress loop? The loop is a group of PHP instructions that retrieve posts from the database of your WordPress site and then displays them on the page. You can find the WordPress loop inside your themes, for example, inside `index.php`, `single.php`, or `page.php`. Any HTML or PHP code placed between the beginning of the loop and the end will be used for each post.

At its most basic, a simple implementation of the loop could work like this:

```
<?php if (have_posts()) : while (have_posts()) : the_post(); ?>
<?php the_title(); ?>
<?php the_content(); ?>
<?php endwhile; else: ?>
    <p>Sorry, no posts matched your criteria.</p>
<?php endif; ?>
```

In the real world, however, the WordPress loop is rarely that simple. This is one of those concepts best explained by referring to a real world example, so open up the `index.php` file of your system's TwentyEleven theme. Look for the following lines of code:

```
<?php if ( have_posts() ) : ?>

<?php twentyeleven_content_nav( 'nav-above' ); ?>

<?php /* Start the Loop */ ?>
<?php while ( have_posts() ) : the_post(); ?>

    <?php get_template_part( 'content', get_post_format()
) ; ?>

    <?php endwhile; ?>

    <?php twentyeleven_content_nav( 'nav-below' ); ?>

<?php else : ?>

    <article id="post-0" class="post no-results not-found">
        <header class="entry-header">
            <h1 class="entry-title"><?php _e( 'Nothing Found',
'twentyeleven' ); ?></h1>
        </header><!-- .entry-header -->

        <div class="entry-content">
```

```

<p><?php _e( 'Apologies, but no results were found
for the requested archive. Perhaps searching will
find a related post.', 'twentyeleven' ); ?></p>
<?php get_search_form(); ?>
</div><!-- .entry-content -->
</article><!-- #post-0 -->

<?php endif; ?>
```

Most of the extra stuff seen in the loop from TwentyEleven is there to add in additional page elements, including content navigation; there's also some code to control what happens if there are no posts to display. The nature of the WordPress loops means that theme authors can add in what they want to display and thereby customize and control the output of their site.



As you would expect, the WordPress Codex includes an extensive discussion of the WordPress loop. Visit http://codex.wordpress.org/The_Loop.



Accessing posts within the WordPress loop

In this recipe, we look at how to create a custom template that includes your own implementation of the WordPress loop.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop.

How to do it

Let's assume you have created a custom template. Inside of that template you will want to include the WordPress loop. Follow these steps to add the loop, along with a little customization:

1. Access the active theme files on your WordPress installation.
2. Find a template file and open it for editing. If you're not sure which one to use, try the `index.php` file.
3. Add to the file the following line of code, which will start the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) : the_post(); ?>
```

4. Next, let's display the post title, wrapped in an `h2` tag:

```
<h2><?php the_title() ?></h2>
```

5. Let's also add a link to all posts by this author. Add this code immediately below the previous line:

```
<?php the_author_posts_link() ?>
```

6. For the post content, let's wrap it in a `div` for easy styling:

```
<div class="thecontent">
    <?php the_content(); ?>
</div>
```

7. Next, let's terminate the loop and add some code to display a message if there were no posts to display:

```
<?php endwhile; else: ?>
<p>Oops! There are no posts to display.</p>
```

8. Finally, let's put a complete stop to the loop by ending the if statement that began the code in step number 3, above:

```
<?php endif; ?>
```

9. Save the file.

That's all there is to it. Your code should look like this:

```
<?php if ( have_posts() ) : while ( have_posts() ) : the_post(); ?>
    <h2><?php the_title() ?></h2>
    <?php the_author_posts_link() ?>
    <div class="thecontent">
        <?php the_content(); ?>
    </div>
    <?php endwhile; else: ?>
    <p>Oops! There are no posts to display.</p>
<?php endif; ?>
```

How it works...

This basic piece of code first checks if there are posts in your site. If the answer is yes, the loop will repeat until every post title and their contents are displayed on the page. The post title is displayed using `the_title()`. The author's name and link are added with `the_author_posts_link()` function. The content is displayed with `the_content()` function and styled by the `div` named `thecontent`. Finally, if there are no posts to display, the code will display the message **Oops! There are no posts to display**.

There's more...

In the preceding code you saw the use of two template tags: `the_author_posts_link` and `the_content`. These are just two examples of the many template tags available in WordPress. The tags make your life easier by reducing an entire function to just a short phrase. You can find a full list of the template tags at: http://codex.wordpress.org/Template_Tags.

The template tags can be broken down into a number of categories:

- ▶ **General tags:** The tags in this category cover general page elements common to most templates
- ▶ **Author tags:** Tags related to author information
- ▶ **Bookmark tags:** The tag to list bookmarks
- ▶ **Category tags:** Category, tag, and item description-related
- ▶ **Comment tags:** Tags covering the comment elements
- ▶ **Link tags:** Tags for links and permalinks
- ▶ **Post tags:** Tags for posts, excerpts, titles, and attachments
- ▶ **Post Thumbnail tags:** Tags that relate to the post thumbnails
- ▶ **Navigation Menu tags:** Tags for the nav menu and menu tree

Retrieving posts from a specific category

There are times when you might wish to display only those posts that belong to a specific category, for example, perhaps you want to show only the featured posts. With a small modification to the WordPress loop, it's easy to grab only those posts you want to display.

In this recipe we introduce `query_posts()`, which can be used to control which posts are displayed by the loop.

Getting ready

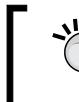
To execute this recipe, you will need a code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop. To keep this recipe short and to the point, we use the loop we created in the preceding recipe.

How to do it...

Let's create a situation where the loop shows only those posts assigned to the Featured category. To do this, you will need to work through two different processes.

First, you need to find the category ID number of the Featured category. To do this, follow these steps:

1. Log in to the **Dashboard** of your WordPress site.
2. Click on the **Posts** menu.
3. Click on the **Categories** option.
4. Click on the category named **Featured**.
5. Look at the address bar of your browser and you will notice that part of the string looks something like this: **&tag_ID=9**. On the site where we are working, the Featured category has the ID of 9.



Category IDs vary from site to site. The ID used in this recipe may not be the same as the ID for your site!

Next, we need to add a query to our loop that will extract only those posts that belong to the Featured category, that is, to those posts that belong to the category with the ID of 9. Follow these steps:

1. Open the file that contains the loop. We'll use the same file we created in the preceding recipe.
2. Find the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) :  
    the_post(); ?>  
    <h2><?php the_title() ?></h2>  
    <?php the_author_posts_link() ?>  
    <div class="thecontent">  
        <?php the_content(); ?>  
    </div>  
    <?php endwhile; else: ?>  
    <p>Oops! There are no posts to display.</p>  
<?php endif; ?>
```

3. Add the following line of code immediately above the loop:
`<?php query_posts($query_string.'&cat=9'); ?>`
4. Save the file.

That's all there is to it. If you visit your site, you will now see that the page displays only the posts that belong to the category with the ID of 9.

How it works...

The `query_posts()` function modifies the default loop. When used with the `cat` parameter, it allows you to specify one or more categories that you want to use as filters for the posts.

For example:

- ▶ `query_posts(&query_string.'&cat=5');` Get posts from the category with ID 5 only
- ▶ `query_posts(&query_string.'&cat=5,6,9');` Get posts from the category with IDs 5, 6, and 9
- ▶ `query_posts(&query_string.'&cat=-3');` Get posts from all categories, except those from the category with ID 3



For more information, visit the WordPRes Codex page on query posts:
http://codex.wordpress.org/Function_Reference/query_posts



Getting a specific number of posts

If you'd like to control the number of posts displayed on the page, you can do so by using the `query_posts()` function we introduced in the previous recipe.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop. To keep this recipe short and to the point, we use the loop we created in the first recipe in this chapter.

How to do it...

Let's create a situation where the loop produces only two posts for the page. Follow these steps:

1. Open the file that contains the loop. We'll use the same file we created in the first recipe in this chapter.

2. Find the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) :  
    the_post(); ?>  
    <h2><?php the_title() ?></h2>  
    <?php the_author_posts_link() ?>  
    <div class="thecontent">  
        <?php the_content(); ?>  
    </div>  
<?php endwhile; else: ?>  
    <p>Oops! There are no posts to display.</p>  
<?php endif; ?>
```

3. Add the following line of code immediately above the loop:

```
<?php query_posts($query_string.'showposts=2'); ?>
```

4. Save the file.

That's all there is to it. If you visit your site, you will now see that the page displays only two posts (by default, the two most recent posts).

How it works...

Just like in the previous example, we're using the powerful `query_posts()` function. This time, we use the `showposts` parameter that allows you to specify how many posts must be displayed.



While this recipe shows you how to hard code the number of posts, you can also control the number of posts per page from within the WordPress dashboard. Accordingly, this recipe should be used only in special circumstances, where the default controls will not meet your needs.

Retrieving posts by date

Another very handy use of the `query_posts()` function is to get posts according to specific date and time parameters. Retrieving posts by a specific date can be a bit more complex than, for example, getting an exact number of posts, because you sometimes need to use multiple parameters with the `query_posts()` function. The example in this recipe, however, is rather simple. We'll see more complex uses of `query_posts()` date and time parameters in the next recipes.

Let's see how to use `query_posts()` to retrieve and display the posts from a specific date.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop. To keep this recipe short and to the point, we use the loop we created in the first recipe in this chapter.

How to do it...

Let's create a situation where the loop produces only the posts that were published in October. Follow these steps:

1. Open the template file that contains the loop. We'll use the same file we created in the first recipe in this chapter.
2. Find the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) :  
the_post(); ?>  
    <h2><?php the_title() ?></h2>  
    <?php the_author_posts_link() ?>  
    <div class="thecontent">  
        <?php the_content(); ?>  
    </div>  
    <?php endwhile; else: ?>  
        <p>Oops! There are no posts to display.</p>  
<?php endif; ?>
```

3. Add the following line of code immediately above the loop:

```
<?php query_posts($query_string.'monthnum=10'); ?>
```

4. Save the file.

That's all there is to it. If you visit your site, you will now see that the page displays only the posts published in any October of any year.

How it works...

The `monthnum` parameter allows you to specify a month number, and retrieve only the posts published in the given period. You can also get posts by day, year, hour, and even minutes and seconds. In the following recipe, we will look at how to combine multiple parameters to narrow in on specific posts.

Here are the date and time parameters which can be used within the `query_posts()` function:

- ▶ `hour`: Number from 0 to 24, displays posts made during this time
- ▶ `minute`: Number from 0 to 59
- ▶ `second`: Number from 0 to 59
- ▶ `day`: Number from 0 to 31, shows all posts made, for example on the 15th
- ▶ `monthnum`: Number from 1 to 12
- ▶ `year`: Year, show all posts made in for example, 2007

Displaying posts published today

If you publish multiple posts per day, you may very well wish to display your most current posts together, in order to highlight the new content. The WordPress loop makes this possible, with a little help from some easy PHP and the `query_posts()` function. In this recipe, we show you how to display only those posts published today.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop. To keep this recipe short and to the point, we use the loop we created in the first recipe in this chapter.

How to do it...

Let's create a situation where the loop produces only the posts that were published today. Follow these steps:

1. Open the file that contains the loop. We'll use the same file we created in the first recipe in this chapter.
2. Find the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) :  
the_post(); ?>  
    <h2><?php the_title() ?></h2>  
    <?php the_author_posts_link() ?>  
    <div class="thecontent">  
        <?php the_content(); ?>  
    </div>  
<?php endwhile; else: ?>  
    <p>Oops! There are no posts to display.</p>  
<?php endif; ?>
```

3. Add the following lines of code immediately above the loop:

```
<?php  
$current_day = date('j');  
$current_month = date('m');  
$year = date('Y');  
query_posts($query_string . 'day='.$current_  
day.'&month='.$current_month.'&year='.$year); ?>
```

4. Save the file.

If you visit your site, you will now see that the page displays only those posts published on the current date.

How it works...

In the preceding code, we started with creating PHP variables named \$current_day \$current_month and \$year. We then used the `query_posts()` function to tell the system to only extract those posts that matched the date criteria.

Displaying posts published exactly one year ago

Here's a nice idea to give a second life to your older posts. This recipe automatically displays the posts you published exactly one year ago. The recipe uses some simple PHP, the WordPress loop, and the super-useful `query_posts()` function.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold our modified WordPress loop. To keep this recipe short and to the point, we use the loop we created in the first recipe in this chapter.

How to do it...

Let's create a situation where the loop produces only the posts that were published exactly one year ago. Follow these steps:

1. Open the file that contains the loop. We'll use the same file we created in the first recipe in this chapter.

2. Find the loop:

```
<?php if ( have_posts() ) : while ( have_posts() ) :  
the_post(); ?>  
    <h2><?php the_title() ?></h2>  
    <?php the_author_posts_link() ?>  
    <div class="thecontent">  
        <?php the_content(); ?>  
    </div>  
<?php endwhile; else: ?>  
    <p>Oops! There are no posts to display.</p>  
<?php endif; ?>
```

3. Add the following lines of code immediately above the loop:

```
<?php  
$current_day = date('j');  
$current_month = date('m');  
$last_year = date('Y')-1;  
query_posts($query_string . 'day='.$current_  
day.'&month='.$current_month.'&year='.$last_year); ?>
```

4. Save the file.

If you visit your site, you will now see that the page displays only those posts published on the same day of the previous year.

How it works...

The code in this recipe works exactly the same as that in the previous example. First, we have to use the PHP `date()` function to get the current day and month number, and then we subtract 1 from the current year. Once done, we simply use `query_posts()` and the WordPress loop to display the posts.

Using multiple loops

While the default implementation of the WordPress loop uses just one instance of the loop in a template, there is no reason why you cannot use multiple loops in a single template. Using multiple loops allows you the ability to produce specific content items, or lists of contents items in multiple locations on the page – in a sidebar, in the header, in the footer, and so on.

In this recipe, we explore the `WP_query()` function, and learn how to use it to create multiple loops inside a single template.



Creating multiple loops does have an incremental impact on site performance, so while we say there is "no reason why you cannot use multiple loops," that statement comes with the caveat that you are not running an extreme number of loops on each page!

Getting ready

To execute this recipe you will need a code editor and access to the WordPress files on your server. You will also need a theme template file, which we will use to hold loops we create.

How to do it...

We are going to put two loops in a single template, so there are two parts to this recipe. We're going to set up one loop to show all the posts with the category ID 3. Then we will set up another loop to display the two most recent posts.

In the first part, we create the first loop, using `WP_query()`. Follow these steps:

1. Open for editing the template file where you want the loops to appear.
2. Insert the following lines of code:

```
<?php // Loop 1
$first_query = new WP_Query('cat=9');
while($first_query->have_posts()) : $first_query->the_post(); ?>
<h1><a href="<?php the_permalink(); ?>"><?php the_title();
?></a></h1>
<?php the_content(); ?>
<?php endwhile; ?>
<?php wp_reset_postdata(); ?>
```

Next, let's set up the second loop. Follow these steps:

1. Add the following to the template file:

```
<?php // Loop 2
$second_query = new WP_Query('showposts=2');
while($second_query->have_posts()) : $second_query->the_post(); ?>
<h1><a href="<?php the_permalink(); ?>"><?php the_title();
?></a></h1>
<?php the_content(); ?>
<?php endwhile; ?>
<?php wp_reset_postdata(); ?>
```

2. Save the file.

If you view the page on your site now, you will see output from both of the loops.

How it works...

`WP_Query()` provides an alternative method for grabbing posts for display by the loop. It can be used to create any number of loops and is the preferred method for putting multiple loops in a single template. It accepts the same parameters as `query_posts()`, making it easy to use.

In the preceding code, we created first a single loop that uses the `cat` variable to pull out the posts in a specific category. The `while` statement cycles through the posts, producing them for output until there are no more posts that meet the criteria.

The second loop uses the `showposts` variable to limit the number of posts displayed to the two most recent and then again we see the `while` statement being used to output the posts.

Both loops close in standard fashion.



Visit the WordPress Codex to learn more about `WP_Query()` at
http://codex.wordpress.org/Class_Reference/WP_Query

Accessing post data outside of the WordPress loop

WordPress template tags, such as `the_title()` or `the_content()`, can't be used outside the loop. There will, however, be times that you want to be able to access post data from outside the loop, for example, to tap into author or post data outside of the primary content display of your page. To access post data outside the loop, you need to tap into the power of WordPress' global variables.

In this recipe, we'll show you how to access post data anywhere on your theme, without using the loop.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You can use any template files from your active theme for this example.

How to do it...

1. Open the template file for editing.
2. Add the following code to the template file:

```
<?php setup_postdata($post); ?>  
<?php the_title(); ?>  
<?php the_content(); ?>
```

3. Save the file.

If you now visit the page on your site that uses the template, you should see the title and the body content of the first post in your system.

How it works...

The `$post()` function allows us to access the post data. Once called, we can use template tags to display the post data on the page, as we would inside the loop.

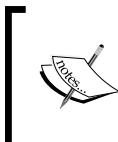
There's more...

WordPress is a very flexible system and there are alternative methods for accessing your post data outside the loop. While the `$post()` approach outlined in the recipe above is probably the simplest, there are other options.

Using `get_post()`

You can also access post data directly from the database by using the function `get_post()`. `get_post()` works entirely outside the loop. Nonetheless, as it is capable of querying the database, you can use it to grab multiple posts by a variety of criteria.

To display post data, you have to specify the name of the data that you'd like to show.



Learn more about the function `get_post()` at http://codex.wordpress.org/Function_Reference/get_post and also here: http://codex.wordpress.org/Template_Tags/get_posts

The following post data is available from the database:

- ▶ `post_author`: ID of the post author
- ▶ `post_date`: Publication date; according to your date settings
- ▶ `post_date_gmt`: Publication date; according to GMT time
- ▶ `post_content`: Post content

- ▶ post_title: Post title
- ▶ post_category: ID of the post category
- ▶ post_excerpt: Post excerpt
- ▶ post_status: Post status (published, draft, and so on)
- ▶ comment_status: If comments are open
- ▶ ping_status: If pingbacks are allowed
- ▶ post_password: Post password, if any
- ▶ post_name: Post permalink %postname%
- ▶ to_ping: Sites to ping
- ▶ pinged: Sites pinged
- ▶ post_modified: Last modified date; according to your time settings
- ▶ post_modified_gmt: Last modified date; according to GMT time
- ▶ post_content_filtered: Post content, filtered
- ▶ post_parent: ID of the post parent, if any
- ▶ guid: Standard URL (for example, <http://blog.com/?p=10>)
- ▶ menu_order: Order in the menu
- ▶ post_type: Post or page
- ▶ post_mime_type: Mime type of the post
- ▶ comment_count: Number of comments or trackbacks of the posts

The previous data should be used in the following way:

```
echo $data->post_title;
echo $data->post_date_gmt;
echo $data->post_content;
echo $data->post_category;
echo $data->post_excerpt;
echo $data->post_status;
echo $data->comment_status;
echo $data->ping_status;
echo $data->post_password;
echo $data->post_name;
echo $data->to_ping;
echo $data->pinged;
echo $data->post_modified;
echo $data->post_modified_gmt;
echo $data->post_content_filtered;
echo $data->post_parent;
echo $data->guid;
```

```
echo $data->menu_order;
echo $data->post_type;
echo $data->post_mime_type;
echo $data->comment_count;
```

Using `get_post_data()`

The function `get_post_data()` lets you access the data for a specific post. This approach differs, as you can see in the following steps:

1. Open your active theme's `functions.php` file for editing.
2. Add the following code to the file:

```
function get_post_data($postId) {
    global $wpdb;
    return $wpdb->get_results("SELECT * FROM $wpdb->posts WHERE
ID=$postId");
}
```

3. Save the file.



The global variable `$wpdb` is used to communicate with the WordPress database.

The function is now ready to use. To use the function, add the following anywhere in your theme files:

```
<?php
$data = get_post_data(5); // the ID number of the post you wish to
display all or part of
echo $data[0]->post_title; // Print the title
echo $data[0]->post_content; // Print the content
?>
```

Note that the function takes a single argument: the post ID. Use the ID of the post you wish to access to make all the elements of that post available to you. Once called, you can display all or part of the post data. While in the example above we only display the title and the content, you can display all the other elements of the post in a similar fashion.



Use this technique sparingly as it does increase load on your database!

Accessing permalinks outside the loop

The previous recipe gave you access to post data outside the loop, but what if you need the permalink? Permalink data is dealt with differently and so you need a different approach.

In this recipe we show you how to use the `get_permalink()` function to get the permalink information from outside the WordPress loop.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You can use any template files from your active theme for this example.

How to do it...

1. Get the post ID of the post for which you wish to display a permalink.
2. Open for editing the template file where you wish to display the permalink.
3. Add the following line of code:
`">Link to the post</code`
4. Save the file.

That's all there is to it!

How it works...

Just like `get_post()`, the `get_permalink()` function takes a single argument—the ID of the post.

There's more...

When you're on a post or page, and within the loop, a `$post` global variable is initialized. This variable contains all of the data you can get with the `get_post()` function that we saw in the previous recipe. The `get_permalink()` function can be used along with the `$post` global variable, for example:

```
<a href="php echo get_permalink($post-&gt;ID) ; ?&gt;"&gt;Link<br/to the post</a>
```

In order to minimize database requests, if you are inside the loop, you should always try to use the `$post` variable.

Displaying thumbnails on your homepage

You must have heard many times that 'A picture is worth a thousand words'. This old saying remains true on the web today. Many sites use thumbnails displayed next to post excerpts on their homepage to visually enhance their site and give it a more professional look.

In this recipe, we'll show you how you can easily add thumbnails to your homepage, independent of the theme you're using.

To add thumbnails to your homepage, we'll be using custom fields. Custom fields are one of the most powerful WordPress techniques. Using custom fields, you can define a key and give it a value. In your template, you simply have to get the key to display the custom value. Custom fields are individually defined on each post or page.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You can use any template files from your active theme for this example.

How to do it...

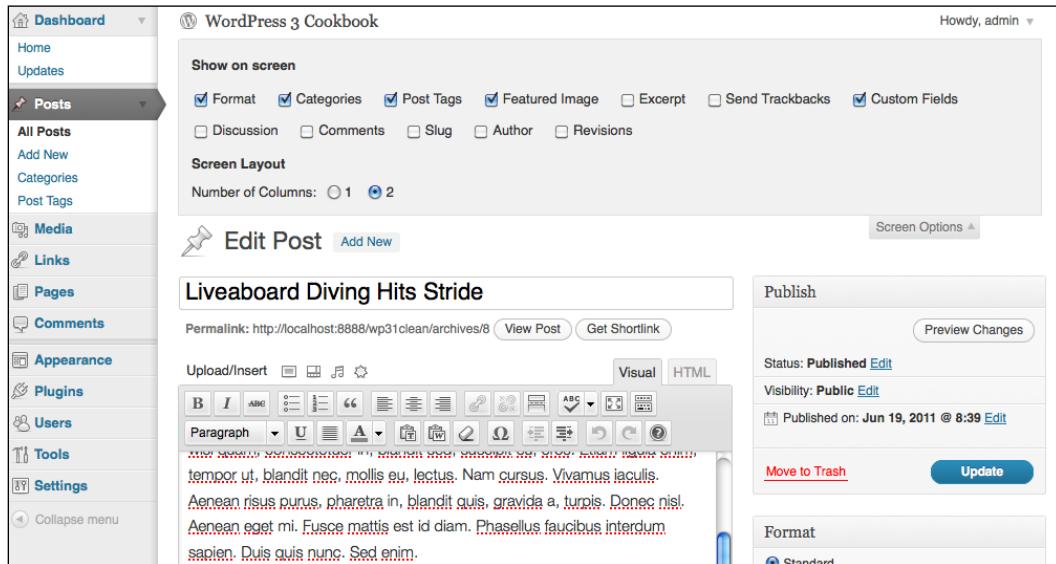
There are three parts to executing this recipe. First, we have to enable the custom fields option in the WordPress editor. Then we must create a key, and finally we have to get the key into the template files.

As of WordPress 3.1, some of the functionality in the editing window is hidden by default. One of the items that has been hidden is the custom fields functionality, which we need to complete this recipe. To enable the custom fields functionality, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Open a post for editing.
3. Click on the **Screen Options** tab at the top of the page.

Customizing Content Display

4. Select the option **Custom Fields** option, as shown in the following screenshot:



5. Click on the **Screen Options** tab again to hide the panel from sight.

Now that the custom fields function is activated, we can move forward and set up the key that we need:

1. Open for editing the post where you wish to display the thumbnail.
2. Upload the thumbnail image for this post. Though it depends on your design, a good size is typically around 120 x 120 pixels.
3. Copy the image's URL.
4. Close the image upload dialogue.
5. Scroll down the page until you see **Custom fields**. In the **name** field enter **thumbnail**.
6. In the **value** field, paste the image URL that you previously copied.
7. Click on the **Add Custom Field** button.
8. **Update** the post.

If you visit your blog now, you won't see any changes. The custom field is defined and it has a value, but for now our theme doesn't know what to do with it. In the next steps, we tell the template to display the thumbnail:

1. Open your `index.php` file for editing.
2. Find the WordPress loop.

3. Add the following code into the loop, placing it where you want to see your thumbnails:

```
" />
```

4. Save the file.

Visit your site and you should see the thumbnails displayed! Now, you can go back in and add styling around the code we inserted to control the formatting of the thumbnail, or even add other attributes to the `` tag.

How it works...

To be fully functional, a custom field has to be entered on any post where you'd like to use it, and your theme must have the preceding code to handle it. Some recent WordPress themes can natively handle custom fields, but a majority of themes still can't.

To get the value of the custom field, I have used the `get_post_meta()` function, which takes the key name of your custom field as an argument. The function simply produces on the screen the value you gave to the key field for this particular post, in this case, as part of the URL string for an image.

Alternating background colors on post lists

A common technique used to improve the readability of long lists of posts is to employ what is commonly known as zebra striping, that is, to provide alternative background colors to the posts. The use of a subtle background color on every other post helps to visually separate the posts and makes it easier on the viewers' eyes.

In this recipe, we look at how to add alternating background colors to your post lists.

Getting ready

This recipe can be achieved with any WordPress theme. You don't need anything except a WordPress theme and a text editor.

How to do it...

1. Access the active theme files for your WordPress installation.
2. Open `index.php` for editing.
3. Find the loop.

4. Replace your current loop with the following one:

```
<?php $odd_or_even = 'odd'; ?>
<?php if (have_posts()) : while (have_posts()) : the_post(); ?>
<div class="post <?php echo $odd_or_even; ?>">
<?php $odd_or_even = ('odd'==$odd_or_even) ? 'even' : 'odd'; ?>
    <h2><?php the_title(); ?></h2>
    <?php the_content(); ?>
</div>
<?php endwhile; else: ?>
    <p>Sorry, no posts matched your criteria.</p>
<?php endif; ?>
```

5. Save index.php.

6. Open your active theme's style.css file for editing.

7. Add the following classes to style.css:

```
post.odd{
    background: #ccc;
}
.post.even{
    background: #fff;
}
```

8. Save style.css

If you visit your site, you will now see your post backgrounds display alternating background colors. Feel free to replace the colors in the code with the colors of your choice.

How it works...

The principle used here is fairly simple. We alternate two CSS classes. To achieve this, we use a PHP operator, which is a short way to write:

```
<?php
if ('odd' == $odd_or_even) {
    $odd_or_even = 'even';
} else{
    $odd_or_even = 'odd';
}
?>
```

Displaying posts in two columns

An increasing number of themes support two column layouts. If yours does not, this recipe will give you a solution. In this recipe, we add a bit of PHP logic to the loop and some CSS styling to the style sheet to achieve a ready-to-use two-column display of your posts.

Getting ready

All you need to execute this recipe is your favorite code editor and access to the WordPress files on your server. You can use any template files from your active theme for this example.

How to do it...

1. Access your WordPress installation.
2. Find the template file where you wish to use the two-column layout and open it for editing.
3. Find your current loop in the file.
4. Replace the loop with the following code:

```
<?php $col = 1; ?>
<?php if (have_posts()) : while (have_posts()) : the_post(); ?>
<?php if ($col == 1) echo "<div class=\"row\">"; ?>
<div class="post hol<?php echo $col;?>" id="post-<?php the_ID(); ?>>
<h2><?php the_title(); ?></h2>
<?php the_excerpt(); ?>
<?php if ($col == 1) echo "</div>"; (($col==1) ? $col=2 : $col=1); ?>
</div>

<?php endwhile; else: ?>
<p>Sorry, no posts matched your criteria.'</p>
<?php endif; ?>
```

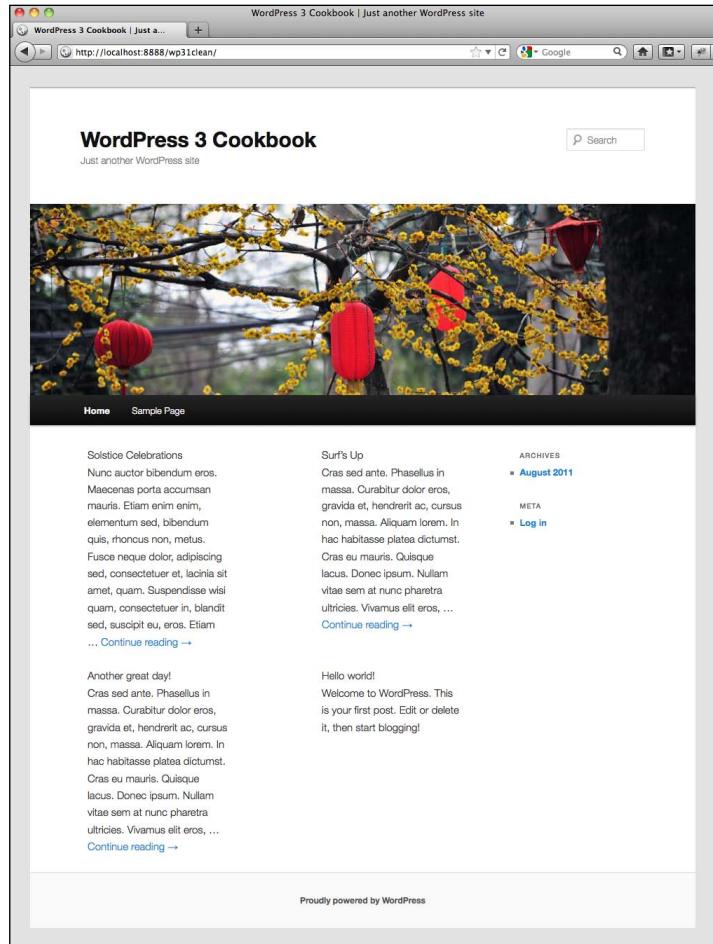
5. Save the file.
6. Open the `style.css` file of your active theme for editing.
7. Add the following styles to the file:

```
.row {
    clear: both;
}
```

```
.hol1 {  
    width: 200px;  
    float: left; padding: 0 10px;  
}  
  
.hol2 {  
    width: 200px;  
    float: right;  
    padding: 0 10px;  
}
```

8. Save your style.css file.

If you visit your site, you will now see that your posts are displayed in two columns as seen in the following screenshot:



How it works...

Before the loop starts, we initialized a PHP variable called `$col`. This variable will contain a value (1 or 2) that helps differentiate the posts and decide when to start a new row or continue with the existing one. We use divs to style the posts into a two-column layout.

After the loop displays the post data, the `$col` variable checks whether to close the `div` tag; the value of the variable determines which column the post goes into. Finally, we used a ternary operator to give `$col` manage the value of variable.

Save time by using WordPress shortcodes

When you know that you'll have to insert the same code snippets on many posts, you should definitely create a shortcode. Introduced in WordPress 2.5, the shortcode API provides a simple set of functions for creating macro codes for use in post content. A classic shortcode looks like this:

```
[author_info]
```

Shortcodes can handle attributes. For example:

```
[download file="myfile.zip"]
```

Also, a shortcode can have embedded content:

```
[mycode] Some Content [/mycode]
```

In this recipe, we show you how you can create your own shortcodes and then use them in posts.

Getting ready

This recipe can be achieved with any WordPress theme. You don't need anything except your favorite WordPress theme and a text editor.

How to do it...

Creating shortcodes is relatively simple. For your first shortcode, let's create a simple one that will display a disclaimer.

We begin by adding a simple PHP function to your theme's `functions.php` file. To do so, follow these steps:

1. Open for editing the `functions.php` file from your active theme.

2. Add the following code to the file:

```
function displayDisclaimer() {  
    return 'This product is meant for educational purposes only.  
    Use of the programs or procedures in such a manner, is at  
    your own risk.';  
}  
add_shortcode('disclaimer', 'displayDisclaimer');
```

You're now able to use the `disclaimer` shortcode. To employ the shortcode, follow these steps:

1. Write a new post, or edit an existing one.
2. Click on the **HTML** tab to switch the editor to HTML mode.
3. Insert the shortcode you just created:
`[disclaimer]`
4. Click on the **Update** button.

If you visit the page you just edited, instead of seeing `[disclaimer]`, you will see the text you put into the function.

How it works...

In this example, we created a very basic function and then used the `add_shortcode()` function to turn it into a shortcode. The `add_shortcode()` function takes two arguments—the first is the shortcode name, and the second is the function to call when the shortcode will be used.

Every time WordPress displays a post, the system automatically looks for shortcodes and, when it finds one, executes the associated function.

Enabling the use of shortcodes in widgets

While WordPress shortcodes are incredibly useful, sadly, they are only available inside of posts and pages. In this recipe, we show you how to extend the power of shortcodes by enabling their use in widgets.

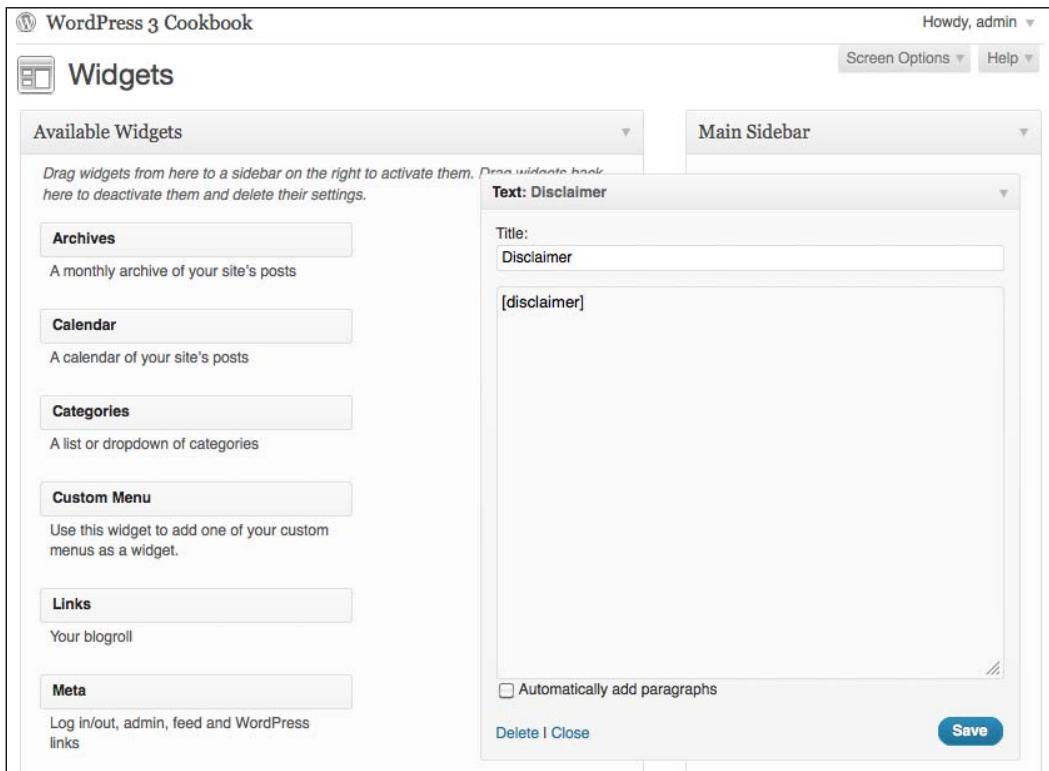
Getting ready

This recipe requires modifying the `functions.php` file of your theme. This will work with any theme, so all you need is access to your theme files and a code editor.

How to do it...

1. Access your active WordPress theme.
2. Open the `functions.php` file for editing.
3. Add the following line of code to the file:
`add_filter('widget_text', 'do_shortcode');`
4. Save the file.

That's all it takes. Now you can add shortcodes directly into a Text widget, as shown in the next screenshot, and the system will display the proper output:



How it works...

The line of code added to the `functions.php` file simply allows the shortcodes to be properly interpreted by the system when they appear inside of widget content areas. Thereafter, normal shortcode usage applies and the system will display the proper output, rather than the shortcode text.

Adding notes to your posts

If you are working with others to create content for your site, there are times when it would be nice to be able to leave private notes concerning the revision of the content items. In this recipe, we look at using a shortcode to enable administrators to post private messages on content items. The messages can only be seen by other users who have the permission to publish posts, and even then, only when they are logged in. Public visitors to the site and registered users who do not have permissions to publish content will not see the messages. This gives you an easy way make comments to the author and provide suggestions and feedback directly on the content item.

Getting ready

All you need to execute this recipe is a code editor and access to your theme files. We will be working with the `functions.php` file from your active theme.

How to do it...

First, let's create the shortcode:

1. Access the active theme files on your WordPress installation.
2. Open for editing the `functions.php` file.
3. Add to the file the following lines of code:

```
function admin_note( $atts, $content = null ) {  
    if ( current_user_can( 'publish_posts' ) )  
        return '<div class="adminnote">' . $content . '</div>';  
    return '';  
}
```

4. Save the file.

The shortcode is now ready to use. Next, let's create a unique style for the note so that it is easily visible. Follow these steps:

Open for editing the `style.css` file of your active theme.

1. Add the following selector to the file:

```
.adminnote {  
    color:#990000;  
    background:#ffff00;  
}
```

2. Save the `style.css` file.

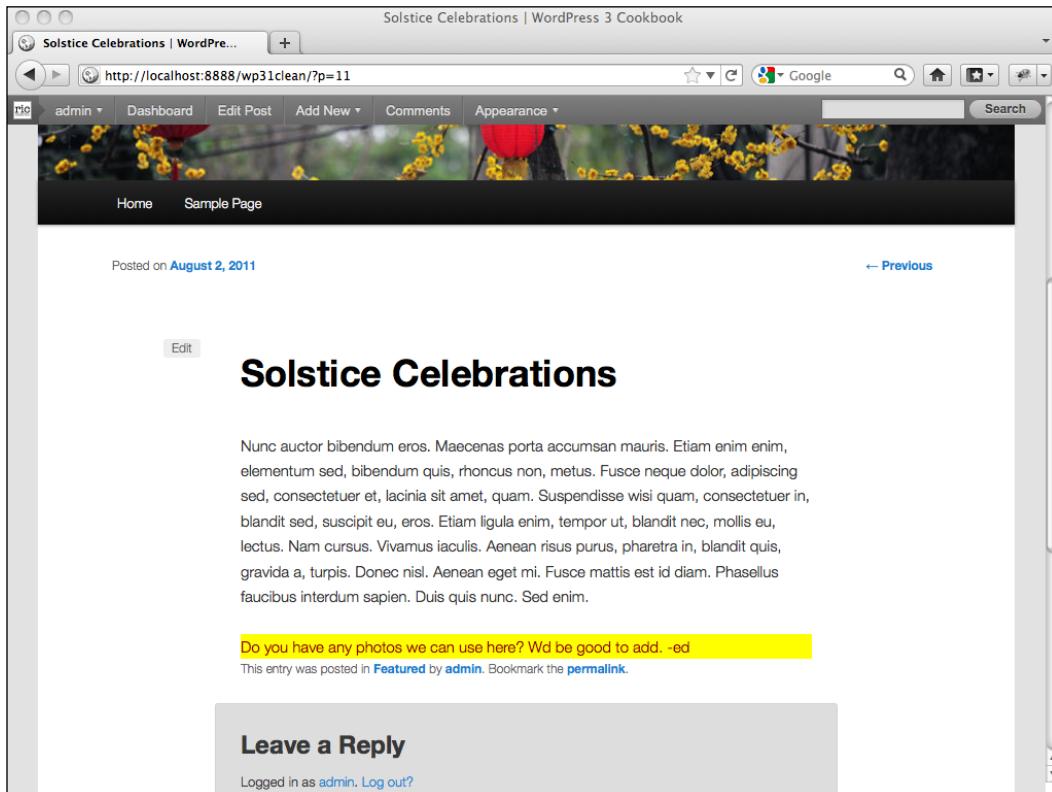
To apply the new admin note shortcode to a post, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Open a content item for editing, or create a new item.
3. Click on the **HTML** tab to switch to the HTML editor.
4. Type your message into the editing window, using a format like this:

[adminnote] Your message goes in here [/adminnote]

5. Click on the **Update** button to save the content item.

If you stay logged in and visit the page on your site, you will now see the message, as shown in the following screenshot:



How it works...

We started in the `functions.php` file, where we created a new function called `admin_note()`. In that function we tell the system to check whether the active user has the permission to publish posts and if so, we show that user any content inside the `adminnote` shortcode. Next, we edited the `style.css` file to provide a selector for the class we used to wrap the `$content` in the `functions.php` file.

Adding tags to your pages

The tags system included in the WordPress core makes it easy for you to tag your posts and then produce a tag cloud, based on that data. Unfortunately, the default tagging system does not extend to the pages of your site – it only works on posts.

In this recipe we look at implementing a simple plugin to fill that gap and to bring full tagging to your site's pages.

Getting ready

To execute this recipe, you will need to install the Page Tagger plugin. You will need to install this plugin before you can get started. Search for page tagger inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.

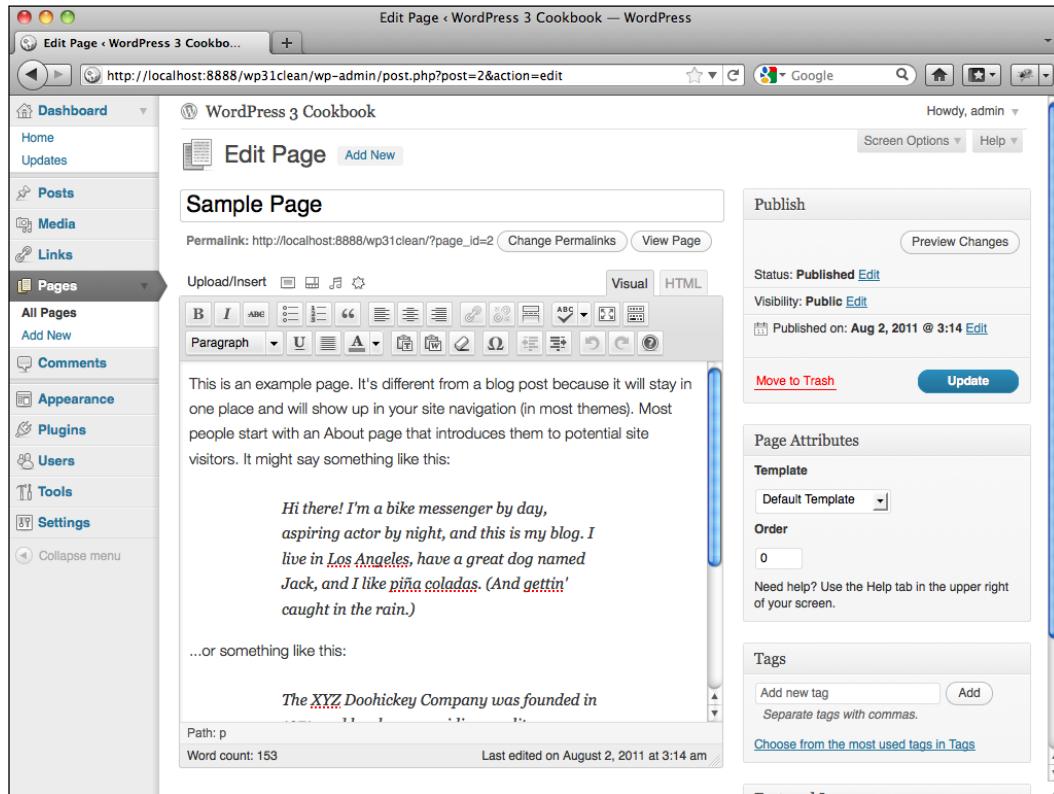


You can learn more about the plugin by visiting the developer's site at <http://www.hiddentao.com/code/wordpress-page-tagger-plugin/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Pages** menu.
3. Click on the page your wish to edit, or create a new page.
4. In the right hand column, typically below the **Page Attributes** widget, you will see the **Tags** widget. The next screenshot shows the **Tags** widget. Simply enter the tags you wish to associate with the page, separating multiple tags with commas.
5. Click on the **Add** button to save the tags.

6. Click on the **Update** button to save the page.



How it works...

The plugin here does all the work; it merely extends the tagging functionality to the pages of your site.

5

Building Interactivity and Community

In this chapter, we will cover:

- ▶ Improving navigation with a paginator
- ▶ Highlighting searched text in search results
- ▶ Integrating a forum into your site
- ▶ Adding social bookmarking buttons to your site
- ▶ Aggregating RSS content
- ▶ Integrating Feedburner into your site
- ▶ Displaying a retweet button on your posts
- ▶ Getting more comments with the Subscribe to Comments Reloaded plugin
- ▶ Removing the nofollow attribute to motivate users to leave comments
- ▶ Providing recognition for your top contributors
- ▶ Displaying author-related information on posts
- ▶ Displaying the author's avatar on posts
- ▶ Allowing multiple authors on posts
- ▶ Diaplying a list of all of the authors
- ▶ Creating community with BuddyPress
- ▶ Adding a simple gallery to your site
- ▶ Bringing Facebook functionality into your site
- ▶ Integrating a Twitter stream into your site

Introduction

Websites today are expected to provide users with a degree of interactivity. Moreover, with the growth of social networks and the prevalence of mobile devices and location services, the ability for a site to generate community is becoming an increasingly important factor. In this chapter, we look at a variety of techniques and plugins that allow you to add important interactivity to your WordPress and enable you to build community.

Some of the recipes in this chapter are simple to execute, and others, such as the BuddyPress recipe, are quite complex. Before you consider the suggestions given in the following recipes, you should think carefully about what features your site visitors are likely to use.



If you are unsure about how to begin with building community on your site, start small and add features as you learn what your users like and find beneficial.

The recipes in this chapter also include plugins that let you tap into two of today's most popular third-party platforms: Facebook and Twitter. There is some overlap in a few of these recipes, at least where they concern social bookmarking. The recipes that provide multiple social bookmarking solutions tend to be more general in functionality, and the recipes focused on specific systems tend to offer a richer feature set – choose whichever you feel is most suitable for you.

Improving navigation with a paginator

When a website, or blog, publishes lots of articles on a single page, the list can quickly become very long and hard to read. To solve this problem, paginations were created. Simple paginations allow you to move forward and backwards through the list of articles by clicking on next and previous links. More advanced pagination options present you with a numbered list of pages corresponding to the total number of articles (divided by the number of articles per page). Numbered pagination not only provides the user with more information about the number of pages and where they are in the list, it also makes it possible to jump directly to specific pages.

The default WordPress system relies on simple pagination. In this recipe, we'll show you how to integrate a plugin that enables the richer, numbered pagination option.

Getting ready

To execute this recipe, you will need to install the WP-Paginate plugin. You will need to install this plugin before you can get started. Search for **WP-Paginate** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at
<http://www.ericmmartin.com/projects/wp-paginate/>

How to do it...

There are two parts to the recipe. In the first part, we need to configure the plugin. In the second part, we need to add a bit of code to our theme to place the output on the page.

To begin, let's look at the configuration options offered by the plugin:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **WP-Paginate** option.
4. On the page that appears, select the options you want to use. The image following shows the standard configuration:

The screenshot shows the 'WP-Paginate' settings page in the WordPress admin. The left sidebar shows the 'Settings' menu selected. The main area has a title 'WP-Paginate'. It contains several input fields and dropdown menus for configuration:

- Pagination Label:** A text input field with placeholder 'Pages:' and a description 'The text/HTML to display before the list of pages.'
- Previous Page:** A text input field with placeholder '«' and a description 'The text/HTML to display for the previous page link.'
- Next Page:** A text input field with placeholder '»' and a description 'The text/HTML to display for the next page link.'
- Advanced Settings** section:
 - Before Markup:** A text input field with placeholder '<div class="navigation">' and a description 'The HTML markup to display before the pagination code.'
 - After Markup:** A text input field with placeholder '</div>' and a description 'The HTML markup to display after the pagination code.'
 - Markup Display:** A checked checkbox with a description 'Show Before Markup and After Markup, even if the page list is empty?'
 - WP-Paginate CSS File:** A checked checkbox with a description 'Include the default stylesheet wp-paginate.css? WP-Paginate will first look for wp-paginate.css in your theme directory (themes/twentyeleven).'
- Page Range:** A dropdown menu set to '3' with a description 'The number of page links to show before and after the current page. Recommended value: 3'
- Page Anchors:** A dropdown menu set to '1' with a description 'The number of links to always show at beginning and end of pagination. Recommended value: 1'
- Page Gap:** A dropdown menu set to '3' with a description 'The minimum number of pages in a gap before an ellipsis (...) is added. Recommended value: 3'

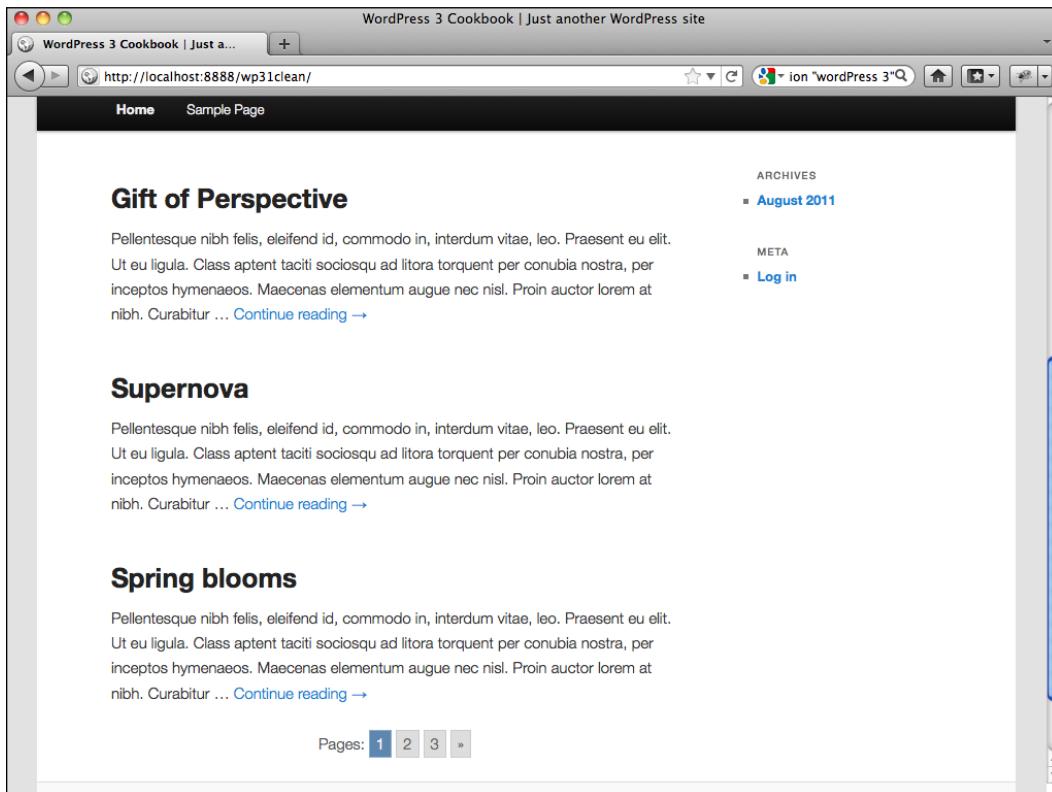
At the bottom is a blue 'Save Changes' button and a link 'Need Support?'.

5. When you've finished, click on the **Save Changes** button.

The plugin is now ready to go; all that remains is for us to add the code to our theme files to display the pagination. Follow these steps:

1. Open the file containing the WordPress loop. For many this will be the `index.php` file. For some of the more recent themes, it may be the `loop.php` file.
2. Place the following code where you want the pagination controls to appear:

```
<?php if(function_exists('wp_paginate')) { wp_paginate(); } ?>
```
3. Save the file.
4. If you view your site, you should now see your new pagination controls, similar to what is shown in the following image:



If your theme relies on multiple template files, you may need to add the code to more than one file, for example, the templates that control the archive pages or the category pages.



How it works...

The plugin does most of the work here, but you still need to add the code to your template files so that the controls are displayed. The key for you is the placement of the code inside the template files in order to display the pagination controls where you want. You will also likely want to wrap the WP-Paginate code with a `div` or some other styling in order to control the appearance and exact placement of the controls.

Highlighting searched text in search results

The default WordPress search is somewhat limited. While it does a fine job of searching your content, it does not provide automatic highlighting of search terms in the search results; a useful feature that improves usability and makes it easier for users to identify the right article for their needs.

In this recipe, we look at installing a plugin that not only adds highlighting of search terms for searches made on your site, but also highlights search terms when visitors arrive at your site from the big search engines.

Getting ready

To execute this recipe, you will need to install the Highlight Search Terms plugin. You will need to install this plugin before you can get started. Search for "highlight search terms" inside the Add New Plugins screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at <http://4visions.nl/wordpress-plugins/highlight-search-terms/>

How to do it...

After you have installed and activated the plugin, you still need to take a further step. While the plugin is operational as soon as it is installed, the highlights will not appear on your site until you add a highlights style to your style sheet. Here's how to do it:

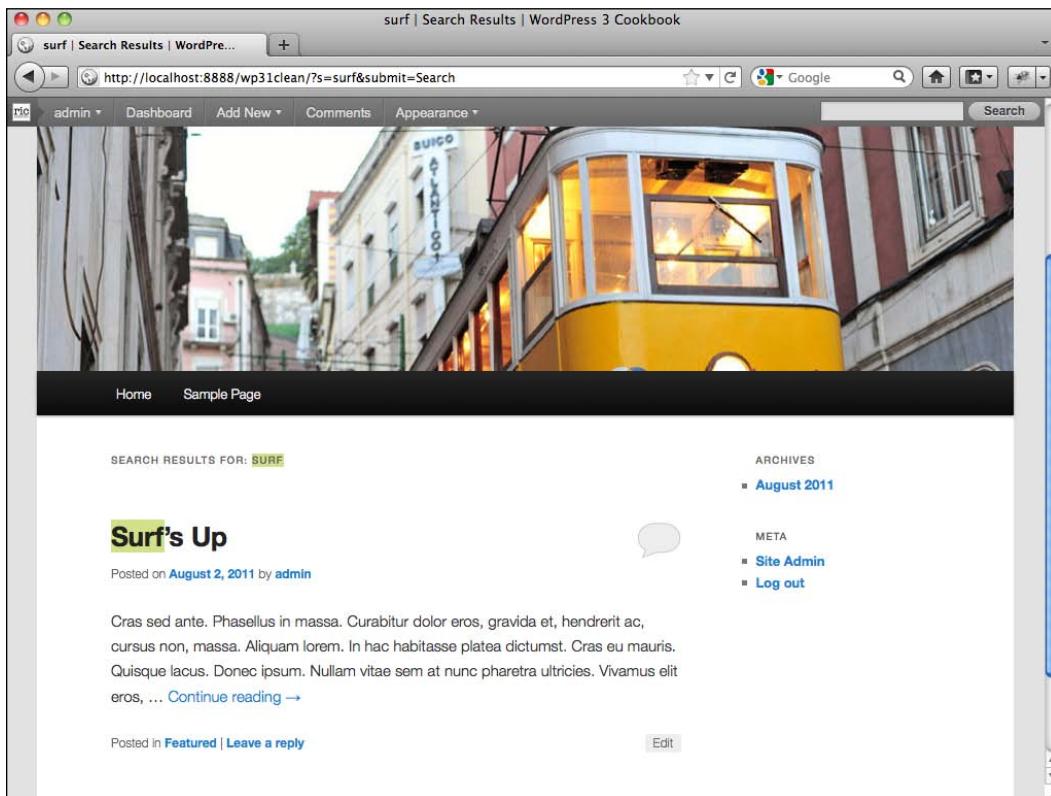
1. Access the theme files of your WordPress installation.
2. Open the `style.css` file of your active theme for editing.

3. Add the following selector to the stylesheet:

```
hilite {  
    background:#D3E18A;  
}
```

4. Save the file.

You're done. Now, the searched text will be highlighted in your search results, as shown in the following screenshot:



How it works...

The plugin uses jQuery to power the highlights function. Highlights will show for the search results generated by your WordPress search and they will also show when someone runs a search on Google, Bing, Baidu, and other major search engines, then clicks on a link to your site in the search results; when the user arrives at your site, the terms they searched for will be highlighted in the content item.

The CSS selector we created uses a light green color (indicated by the hex value #D3E18A) for the background of the search terms. You can set the color value for any color that suits your theme.

Integrating a forum into your site

Adding a forum to your site is a great way to provide a place for users to interact with you and with each other. Forums are an effective means of stimulating interaction and increasing page views but they can, however, also increase site management overhead as forum administration can be a huge time sink. Moreover, if your site lacks sufficient traffic, forums can wither and die from lack of activity.

Many forum solutions are available for WordPress: from stand-alone systems like PhpBB/Vbulletin and BBPress to plugins that give you a native WordPress solution. One of the best plugin options for WordPress 3 is the WP Forum Server. The plugin is complete, powerful, and easy to install, use, and manage.

In this recipe, you're going to learn how to integrate WP Forum Server on your WordPress site.

Getting ready

To execute this recipe, you will need to install the WP Forum Server plugin. You will need to install this plugin before you can get started. Search for **WP Forum Server** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at <http://forumpress.org/>

How to do it...

There are several parts to this recipe. In addition to configuring the plugin, you will also want to change the page template associated with the forum page.

Let's get started by configuring the plugin.

1. Log in to your WordPress **Dashboard**.
2. Click the menu named **Forum Server**.

3. On the page that appears, as shown in the following screenshot, you can set your basic forum options. Select the choices you want here.

The screenshot shows the WordPress 3 Cookbook admin dashboard with the 'Forum Server' menu selected. The main content area displays the 'WP Forum Server' settings. It includes a table showing statistics like Number of posts (3), Number of threads (2), and Number of users (1). Below this is a section titled 'WP Forum Server » General Options' containing various configuration fields. These include 'Posts per page' (10), 'Threads per page' (20), 'Number of posts for hot Topic' (15), 'Number of posts for Very Hot Topic' (25), and checkboxes for 'Show Avatars in the forum' and 'Registration required to post'. There are also options for 'Use Captcha for unregistered users' (checked) and 'Language' (set to 'en_US'). A note about date format says 'Default date: "F j, Y, H:i". Check <http://www.php.net> for date formatting.' At the bottom are 'Save options' and 'Vast HTML' buttons, and a footer note about creating with WordPress.

Next, let's set up some basic categories and forums to get things started.

1. On the **Forum Server** menu, click on the option **Categories & Forums**.



In WP Forum Server terminology, categories are created to contain forums. Forums contain threaded discussion topics. If you only have one forum on your site, you only need one category.

2. You may want to begin by changing the name of the default **Category**, which is **uncategorized**. For our example, we changed it to a generic **Welcome to our Forum**. To make this change, click the **Modify** link next to the name of the category.

3. Type the label you desire in the field marked **Name**.
4. Add a description if you want.
5. Click on the **Save Group** button.
6. Click on the **Add forum** link to create new top-level forums into which your users can add topics.
7. Give the new forum a **Name** and a **Description**.
8. Click on the **Save forum** button. At the end of this process you will see something similar to what is shown in the following screenshot:

The screenshot shows the WordPress 3 Cookbook admin interface. The main title is "WP Forum Server » Categories and Forums". A success message "Forum updated successfully" is at the top. Below it, there's a "New category Modify" section with a "Delete" button. The main list contains three items:

- "Welcome to our Forum Modify" with a description "This a new forum I've created for this example." and a "Modify" link.
- New Forum with a description "Demo Forum Description" and a "Modify" link.
- Demo Forum with a "Delete" button.

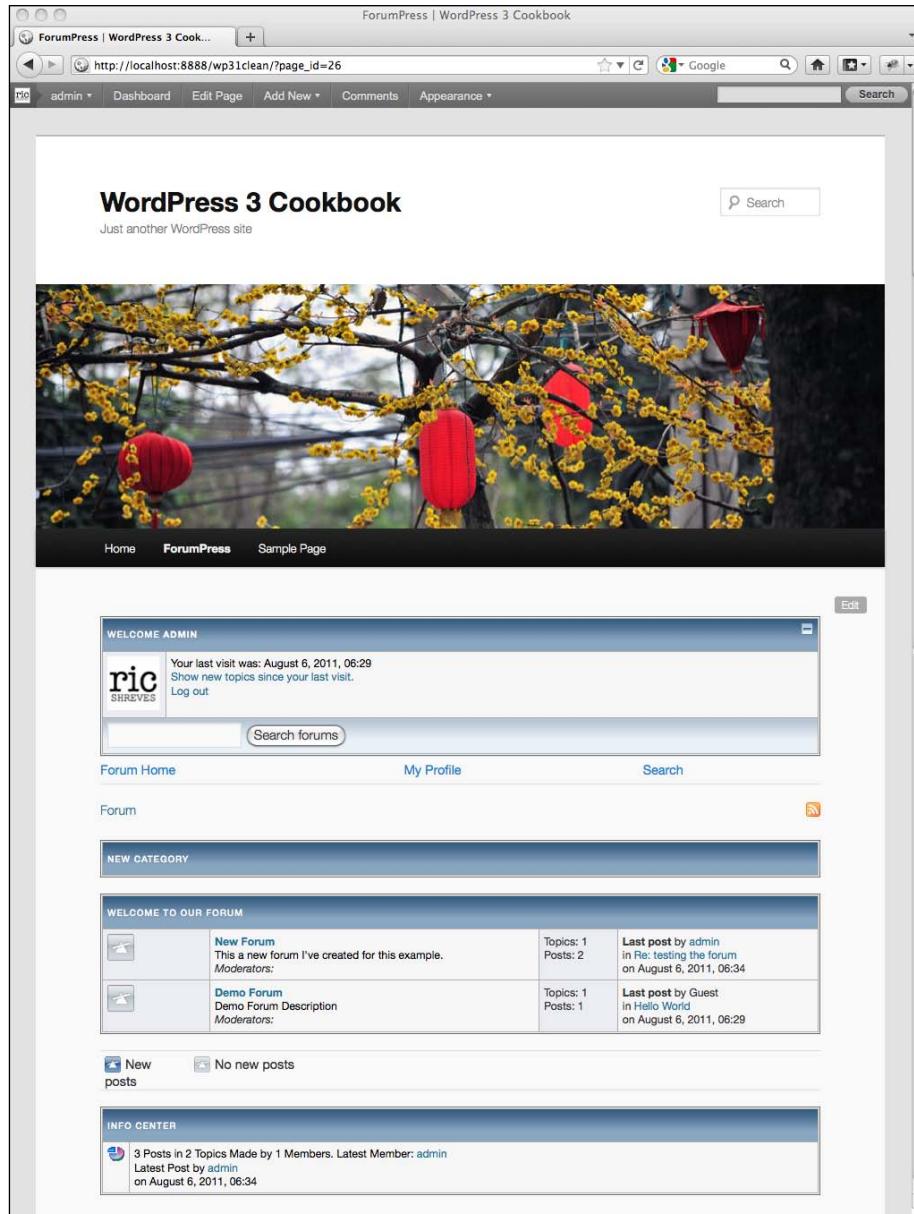
The sidebar on the left has a "Forum Server" menu option selected, showing sub-options: Forum Server, Skins, Categories & Forums, Moderators, User Groups, and About. There's also a "Collapse menu" link.

Your forum is now ready to go. When you installed this plugin, the system automatically created and published a new page containing the forum. In the default theme, the template that is automatically used by the system is not ideal – it is a two-column layout that forces the forum into a narrow column. Accordingly, we're going to change the template to allow the forum to span the width of the page. To do so, follow these steps:

1. Click the menu option **Pages**.
2. Click on the **Edit** link for the page named **ForumPress**.

3. Select from the **Template** combo box the option **Showcase Template**.
4. Click on the **Update** button.

If you access the front-end of your site and click on the menu option **ForumPress**, you will see your new forum in action, as shown in the following screenshot:



How it works...

When installed, the plugin creates some new database tables in order to record threads and topics of your forum. For the rest, it is an advanced forum working the same way (but with less functionality) as popular solutions such as V-Bulletin or PhpBB.

There's more...

As you have seen in the **Forum Server** menu item, there are additional options that you can use to further customize this plugin. In this section we take a quick look at each.

Skins

Skins are CSS files and images that can give a new look and feel to your forum. There are multiple options built into the system, but you can also create new skins. To create a new skin, follow these steps:

1. Access your WordPress installation on the server.
2. Go to the skin's directory for the plugin, at `/wp-content/plugins/forum-server/skins`.
3. Create a new directory; name it for your new skin.
4. Copy the `style.css` file from an existing forum skin.
5. Paste it into your new skin's directory.
6. Open the `style.css` file for editing.
7. Change the name, description, and author information at the top of the file to reflect the name of the new skin and your details.
8. Edit the styles as you see fit to tailor the appearance of the new skin.
9. Save the file.

If you visit the **Skins** link on the **Forum Server** menu, you will see your new skin listed and ready to use.

Moderators

On this page, you can select one of your registered users (who must have the right to edit posts) and allow him to moderate your forum. You can create a global moderator (who can moderate all forums) or a normal moderator (who moderates one forum). Once you have chosen the user to be the moderator, just click on the **Add moderator** button to give him or her the moderation rights.

User groups

User groups allow you to group your users together for the purpose of giving the group specific permissions. You can create a group by naming it and giving it a description. Once done, you can add members to the group.

See also...

- ▶ *Creating community with BuddyPress*

Adding social bookmarking buttons to your theme

Social bookmarking websites are common features on today's web. Digg, Del.icio.us, StumbleUpon, Reddit, and many more. Such websites can drive a huge amount of traffic to your site. Given their potential value to your site, you should add social bookmarking buttons to your theme and give your readers the opportunity to help promote your content items.

In this recipe, we look at how to implement a plugin that adds social bookmarking buttons for all the most popular sites.

Getting ready

To execute this recipe, you will need to install the Sexy Bookmarks plugin (also known as "Shareaholic"). You will need to install this plugin before you can get started. Search for **Sexy Bookmarks** inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.

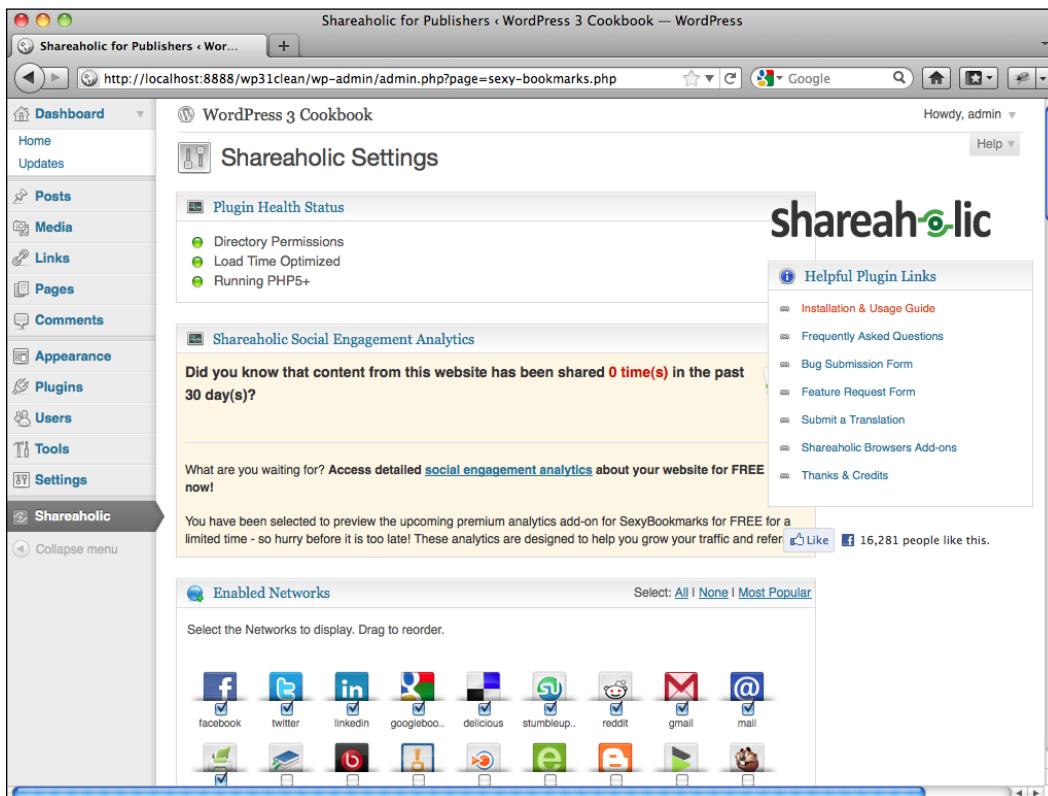


You can learn more about the plugin by visiting the developer's site at <http://sexybookmarks.shareaholic.com/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. If you've just installed the Sexy Bookmarks plugin, you are likely to see a notice at the top of the page, advising you to configure the plugin. Click on the **Shareaholic** menu item.

3. On the **Shareaholic Settings** page, as shown in the next screenshot, you have a large number of options for configuring the appearance and functionality of this plugin. Select the options you wish to use.



4. Click on the **Save Changes** button.

How it works...

The plugin does all the work here. You need only configure it and you're ready to go!

There's more...

In addition to social bookmarking functionality, the Sexy Bookmarks plugin also supports a mail to a friend functionality and a print function. You can select these options from the lengthy list labeled **Enabled Networks**, as partially shown in the previous screenshot.

See also...

- ▶ *Bringing Facebook functionality into your site*

Aggregating RSS content

RSS feeds are common across the web and represent a great opportunity for you to enrich the content of your site and provide your visitors with related relevant content. If you are running a news site, RSS feeds are an invaluable way of providing more comprehensive coverage of your topic.

While the default WordPress system makes it easy to add individual feeds in widget positions, if you want to manage multiple feeds and produce the content in the main content areas of your pages, the default system is awkward to use. Fortunately there is a great plugin that enables you to aggregate and manage multiple RSS feeds. In this recipe, we introduce you to this handy plugin and show you how to complete a basic setup that will provide your site with RSS-sourced content items.

Getting ready

To execute this recipe, you will need to install the Feed WordPress plugin. You will need to install this plugin before you can get started. Search for **Feed Wordpress** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at <http://feedwordpress.radgeek.com/>

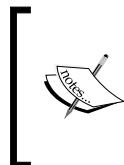
How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Syndication** option on the admin menu.
3. On the page that loads, enter the URL of the first RSS feed you wish to aggregate.
4. Click on the **Add** button.
5. On the page that loads, check the options you wish to apply to this feed.
6. Click on the **Use this feed** button.
7. Repeat the process as needed to gather all the RSS feeds you wish to display.
8. Next, you need to schedule the updates. On the **Syndicated Sites Settings** page, click on the **Feed & Update Settings** link.

9. The **Feed and Update Settings** page, as shown in the next screenshot, provides all the options you need to schedule the updating of your feeds:

The screenshot shows the 'Feed and Update Settings' page in the WordPress admin interface. The left sidebar has a 'Syndication' section with 'Feeds & Updates' selected. The main content area is titled 'Feed and Update Settings'. It includes sections for 'Feed Information', 'Update Scheduling', 'Updated Posts', and 'Settings for Fetching Feeds (Advanced)'. In the 'Feed Information' section, there's a 'Syndicated Link category' dropdown set to '4: Contributors'. Under 'Update Scheduling', the 'Updates' dropdown is set to 'cron job or manual updates'. The 'Time limit on updates' dropdown is set to 'no time limit on updates'. In the 'Updated Posts' section, the 'Updated posts' checkbox is checked. At the bottom, there's a 'Save Changes' button and footer links.

10. Click on the **Save Changes** button.



The **Updates** option enables you to select how the feeds will be updated. The options include manual updates, update before or after pages load, and cron. If you wish to use cron, you will have to take additional steps to set up a cron job on your server, as explained in the text immediately underneath the **Updates** heading, seen in the previous screenshot.



The plugin is ready to go; however, until you update the feeds to bring in the content items, there will be no content to display. To update your feeds for the first time, follow these steps:

1. Click on the **Syndication** option on the **Syndication** menu.
2. In the **Syndicated sources** section of the page, as shown in the next screenshot, click on the checkbox next to the name of all the feeds you wish to update:

Syndicated Sites < WordPress 3 Cookbook — WordPress

Dashboard Home Updates Posts Media Links Pages Comments Appearance Plugins Users Tools Settings Syndication Feeds & Updates Posts & Links Authors Categories & Tags Performance Diagnostics Collapse menu

WordPress 3 Cookbook Howdy, admin Help

Syndicated Sites Settings

Update feeds now

Check currently scheduled feeds for new and updated posts.

Note: Automatic updates are currently turned off. New posts from your feeds will not be syndicated until you manually check for them here. You can turn on automatic updates under [Feed & Update Settings](#).

Update

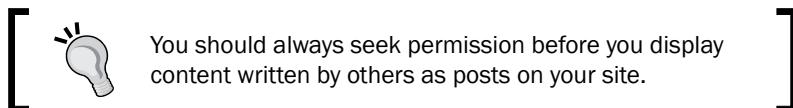
Syndicated sources

Subscribed (2)		New source: Website or feed URI Add →	
<input type="checkbox"/>	Name	Feed	Updated
<input type="checkbox"/>	drupal.org	drupal.org/rss.xml	Last checked 32 mins ago Scheduled for next update 51 mins from now Update Now
<input type="checkbox"/>	RicShreves.Net	ricshreves.net/rss.xml	Last checked 31 mins ago Scheduled for next update 50 mins from now Update Now

Update Checked **Unsubscribe**

3. Click on the **Update checked** button.

The system will check the feeds for new items and, where it finds them, will add them as posts in your site.



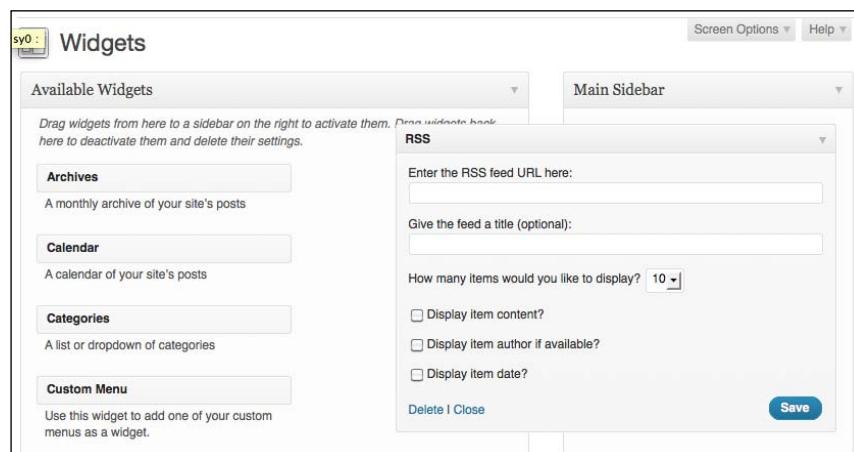
How it works...

This plugin allows you to query multiple RSS sources and to then bring the feed items into your site as posts. The multiple configuration options enable you to select how you want to display the posts and how to manage updating. There's no additional work required here on your part, unless you want to add the cron update option, as noted above.

There's more...

If you don't need to aggregate multiple RSS feeds, there is a simpler solution. The default WordPress system gives you a ready-to-use RSS widget specifically for this purpose. To display the output of a single RSS feed in a widget on your site, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** option on the main admin menu.
3. Click on the **Widget** option on the Appearance menu.
4. Click and drag the RSS widget on to the widget area where you want the output to appear.
5. Inside the new widget, enter the RSS URL, and set the other options you want, as shown in the following screenshot:

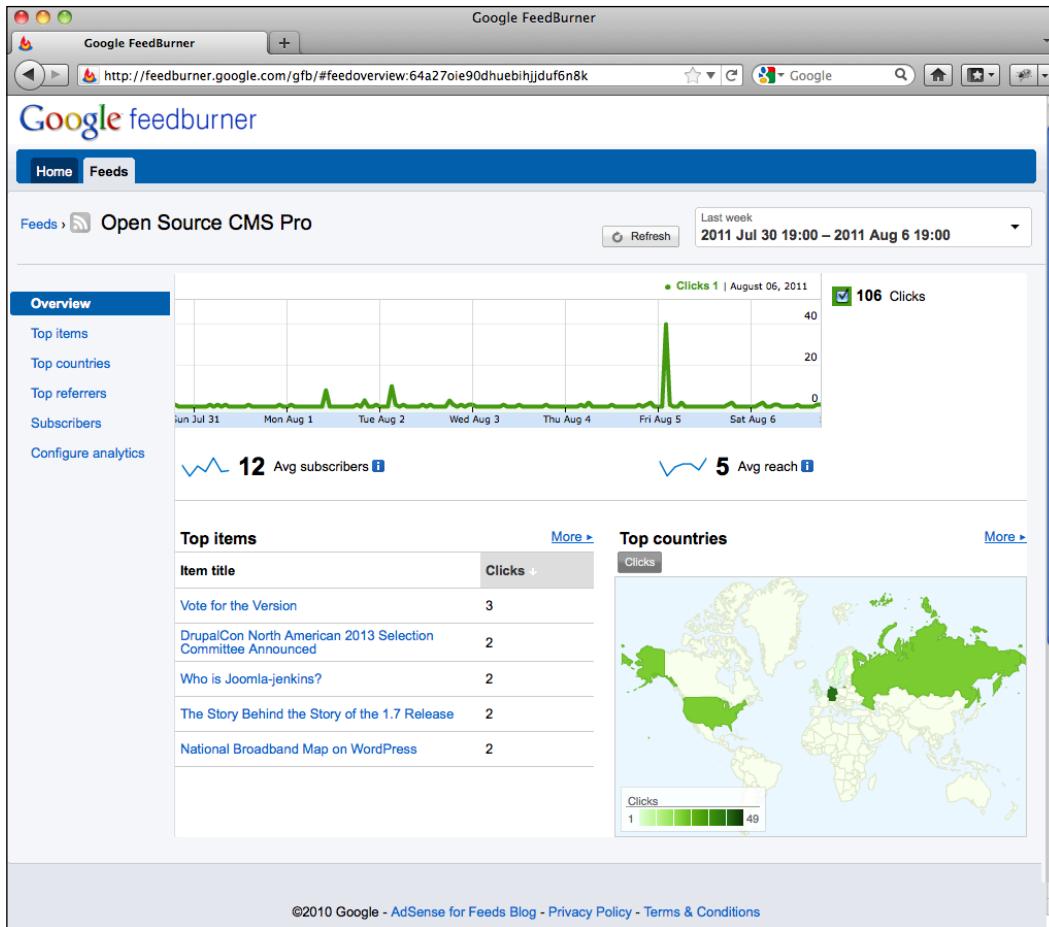


6. Click on the **Save** button.

If you visit the front-end of your site, you should see the output from the RSS feed. This process can be repeated as many times as you like; the system will support multiple instances of the RSS widget.

Integrating Feedburner into your site

Feedburner is a service that allows you to keep a count of the people who have subscribed for your RSS feed. The Feedburner service is a great way to keep up with the RSS subscribers to your site and gain insight into what's working and what needs improvement. The following screenshot shows the Feedburner analytics page for a site:



Once you have created your Feedburner feed, you have to integrate it to your theme. In this recipe, we look at a plugin that helps you integrate the Feedburner feeds with your theme.

Getting ready

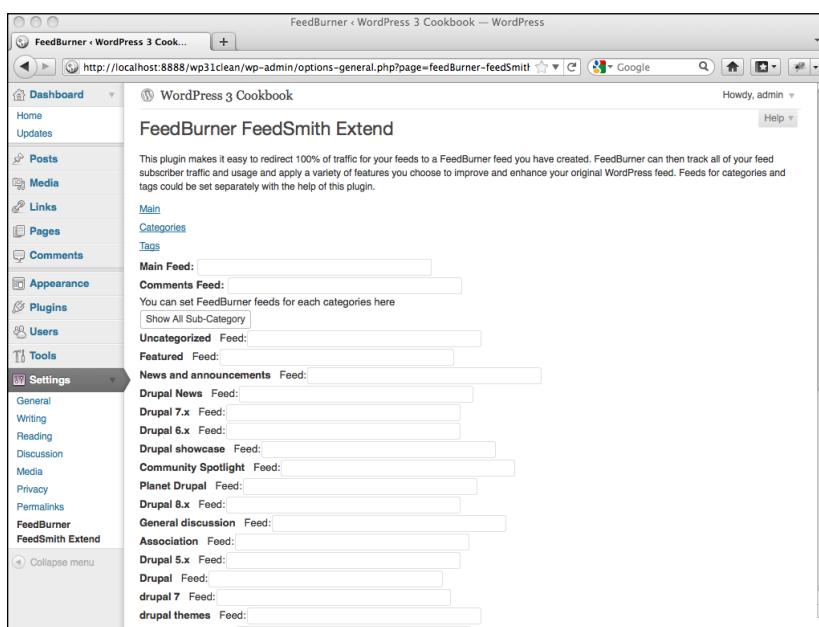
Before we can begin this recipe, you need to have a Feedburner account. Feedburner is a free service owned by Google. To set up your Feedburner account, visit <http://feedburner.google.com>

You will need to install the FeedBurner FeedSmith Extend plugin. You will need to install this plugin before you can get started. Search for **Feedburner Feedsmith Extend** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

How to do it...

Let's start with the manual way by carrying out the following steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **FeedburnerFeedSmith Extend** option in the **Settings** menu.
4. Add your Feedburner URL to the field marked **Main Feed**, as you can see in the following screenshot:



5. Add any other feed URLs you want in the remaining fields.
6. Click on the **Save** button.

How it works...

The FeedSmith plugin simply redirects all requests for the standard WordPress RSS to the Feedburner URLs you set up in the configuration process.

Displaying a retweet button on your posts

Retweeting refers to the process of repeating a post on Twitter. Retweeting is also an effective method for publicizing your content items. By placing a retweet button on your content items, users can simply click the retweet button next to the content item and the system will automatically post it to Twitter, and log the retweet.

In this recipe we show you how to implement a plugin that makes it easy to add a retweet button to the content items on your site.

Getting ready

To execute this recipe, you will need to install the **TopsyRetweet Button** plugin. You will need to install this plugin before you can get started. Search for **TopsyRetweet** button inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



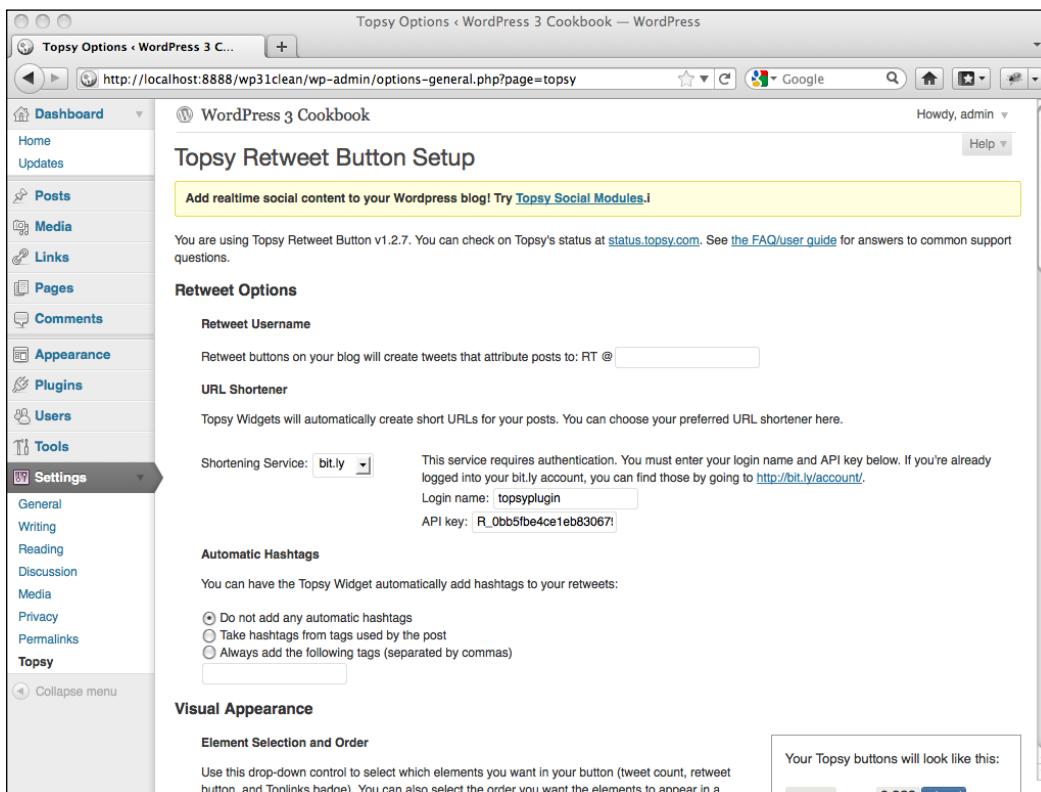
You can learn more about the plugin by visiting the developer's site at <http://corp.topsy.com/2009/10/13/wordpress-plugin-updated-version-0-9-1/>



How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **Topsy** link in the **Settings** menu.

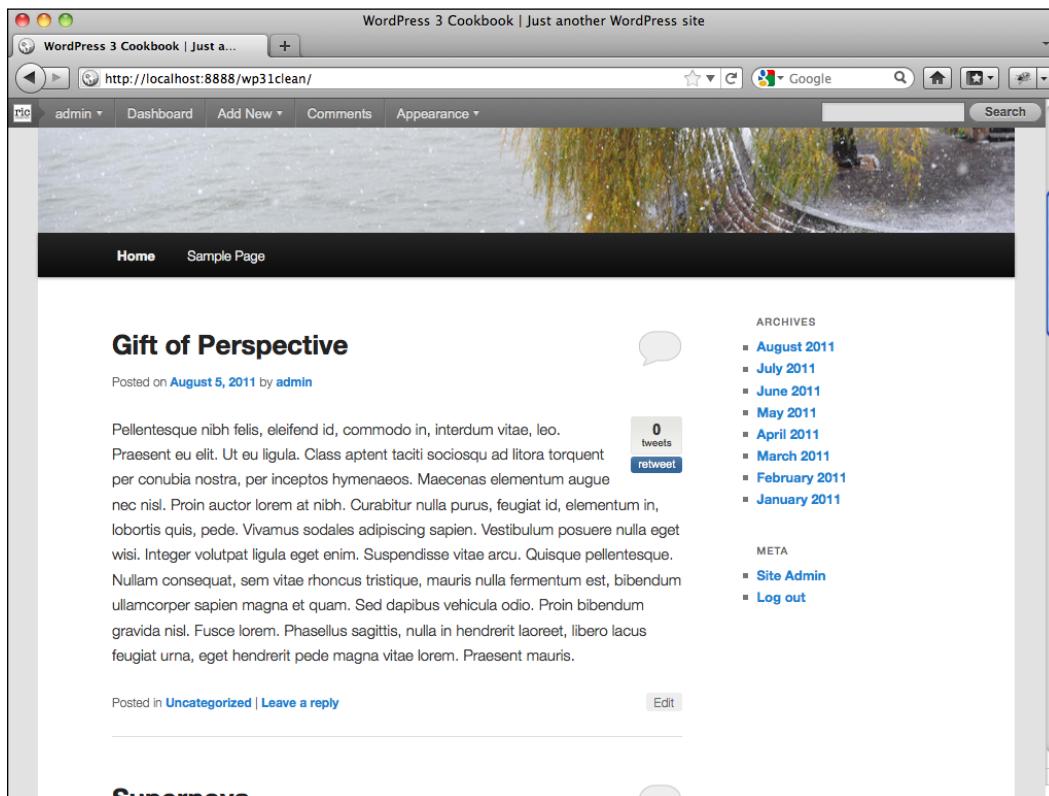
4. On the **TopsyRetweet Button Setup** page, as shown in the next screenshot, you can select from a wide variety of options to customize how the post will be broadcast, whether the URL will be shortened (always a good idea on Twitter!), which categories will include the button, and options to control the buttons appearance and placement. Make your choices here, or simply use the defaults.



5. Click on the **Save Changes** button.

Building Interactivity and Community

The retweet button is now ready to go. Check the front-end of your site to verify the placement and styling; you should see something similar to the next screenshot. Give it a click and try it out.



How it works...

When a user clicks on the retweet button, they are prompted to log in to their Twitter account. Once they log in, the short message with the link to your content item is posted to Twitter through their account and is then viewable by anyone who follows that user (and to those who find the post by searching on Twitter).

Getting more comments with the Subscribe to Comments Reloaded plugin

Comments are very important on the web, because they encourage discussion. When leaving a comment on a post, it's tiresome to come back to the page repeatedly to see if anyone has replied or adding their own comments to the post. There is a solution: Add a subscription function to the comments.

In this recipe we look at implementing a plugin that will add a comments subscription functionality to your site.

Getting ready

To execute this recipe, you will need to install the Subscribe to Comments Reloaded plugin. You will need to install this plugin before you can get started. Search for **Subscribe to Comments Reloaded** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **Subscribe to Comments** option in the **Settings** menu.
4. Click on the **Comment Form** tab at the top of the screen. This tab contains the options related to the visual appearance of the form and the messages that will be shown to your site visitors.
5. Select the options you desire.
6. Click on the **Save Changes** button.
7. You can also configure the **Management Page** options on the tab of the same name; this tab controls the availability and appearance of a management page for the subscribers to see all the comments to which they have subscribed and modify their subscriptions. The Management Page is enabled by default.
8. The **Notifications** tab lets you control what is sent out to subscribers in the notifications e-mails. The **Notifications** can be configured, but it is not necessary to make changes to this tab; the default settings will be fine for most people.
9. Finally, you should also check the **Options** tab and see if the default settings are sufficient for your needs.

How it works...

When someone leaves a comment on your blog, he or she can check the **Subscribe to comments** checkbox. If he or she checks it, the person will receive any other comment posted on the same article through his or her e-mail. This is particularly useful when debating with other readers, or when you have asked a question to the author.

There's more...

If you want, you can check out the subscriber list, see how many people subscribed to your blog posts, and manage subscriptions. To do all of this, log in to your WordPress **Dashboard** and go to **the Subscribe to Comments page under the Settings menu**.

From here, you can perform the following tasks:

- ▶ Search if a particular email address is subscribing to one or more of your posts
- ▶ Get e-mail addresses of your subscribers
- ▶ Get a list of most subscribed posts
- ▶ Remove subscribers
- ▶ Change e-mail address

Remove the **nofollow** attribute to motivate users to leave comments

By default, the links left in the comments have a `rel="nofollow"` attribute automatically added by WordPress. According to Wikipedia, `nofollow` is an HTML attribute value used to instruct some search engines that a hyperlink should not influence the link's target ranking in the search engine's index. It is intended to reduce the effectiveness of certain types of search engine spam, thereby improving the quality of search engine results and preventing spambdexing from occurring.

In other words, any link pointing to a site provides a potential boost to the site's relevancy ranking. If a link has a `rel="nofollow"` attribute, it will not provide any boost to the linked site.

In order to reward commentators it is a good idea to get rid of this `rel="nofollow"` attribute on links. This way, your commentators will gain some benefit when they leave comments on your site.

In this recipe we implement a plugin to selectively remove the `nofollow` links and thereby provide an incentive to people to post comments on your site.

Getting ready

To execute this recipe, you will need to install the Remove Comment NoFollow plugin. You will need to install this plugin before you can get started. Search for **Remove Commentnofollow** inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.



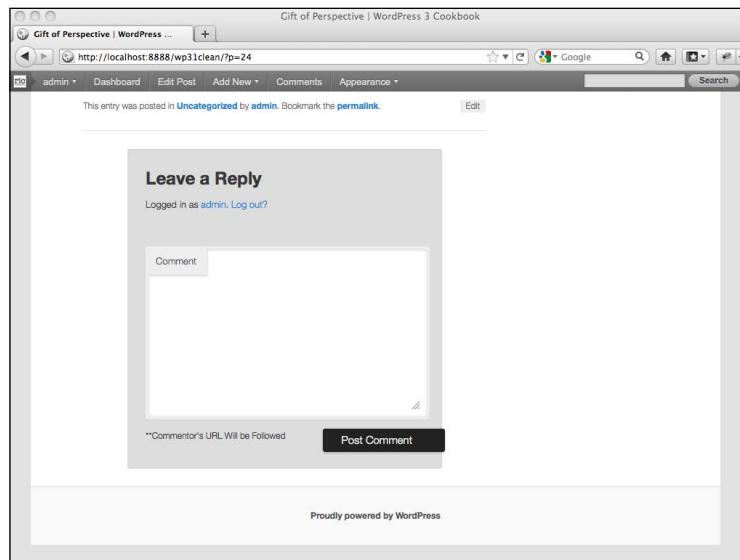
You can learn more about the plugin by visiting the developer's site at <http://myhub.gumz-ex-press.com/remove-comment-nofollow-plugin>

How to do it...

There is only one configuration option available for this plugin. To access that option, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **GMZ Comment Follow** option in the **Settings** menu.
4. Enter the message you want to display on the comments form.
5. Click on the **Save Changes** button.

That's all there is to it. As you can see in the following screenshot, the message you enter appears on the comment to help motivate users to post comments on your site:



How it works...

The plugin in this recipe provides an alternative to hacking the core files to remove the nofollow attribute. As we want to always avoid hacking the core files, the plugin provides us with an easy solution.

Once the nofollow instruction is removed, the search engines will credit the target website with an additional inbound link, thereby providing the site with an incremental boost in its relevancy rankings.

Provide recognition to your top contributors

Another good way to reward commentators is to provide them with some recognition. The Top Contributors widget enables you to display a list of the people who provide the most comments or articles for your site. Placing the widget on your site is a good way to not only motivate people to be active on your site, but also a good way to provide direct links to the content generated by your most valuable users.

Getting ready

To execute this recipe, you will need to install the Top Contributors plugin. You will need to install this plugin before you can get started. Search for **Top Contributors** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at
<http://justmyecho.com/2010/07/top-contributors-plugin-wordpress/>

How to do it...

There are two parts to this recipe: First we must configure the plugin, then we must set up the widget.

Carry out the following steps to configure the Top Contributors plugin:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click the **Top Contributors** link in the **Settings** menu.

4. Select from the options displayed, as shown in the following screenshot:

The screenshot shows the 'Top Contributors' settings page in the WordPress 3 Cookbook theme. The left sidebar has a 'Settings' menu open, showing options like General, Writing, Reading, Discussion, Media, Privacy, Permalinks, and Top Contributors. The main content area is titled 'Top Contributors'.

How to Use Widget:
 Use the **Top Contributors Widget** to add the widget to sidebar, or paste this code into your template where you want the widget to display:
 Commenter List: <?php if(function_exists('jmc_top_contributors')) { jmc_top_contributors(); } ?>
 Author List: <?php if(function_exists('jmc_top_contributors')) { jmc_top_contributors(1); } ?>

Give me feedback, suggest new features, and get more information about the plugin on the [plugin page](#).

Top Contributors Options:

- Show Settings For: Commenters Authors
- Number of Contributors: 5
- Display Count:
- Avatar Options:**

 - Display User Avatar:
 - Avatar Size: 40 (pixels)

- Time Options:**

 - Show comments/posts from: All Time The Last 1 month(s) Only This month

- Widget Format:**
 - List Style (Shows user icons and names)
 - Gallery Style with tooltips (Shows a grid of user icons)

John Smith 148 comments	summerfun 75 comments
David 71 comments	
- Number of columns to display contributors: 1
- Enable KeywordLuv on user names
- Exclude Users by their Email Address (separate by comma):** (Text input field)
- Count Comments By:** User Email Address Username (Description: Use the Username option if users are not required to enter email address when commenting.)
- Link Attribute Options:** None rel="nofollow" rel="dofollow"
- Include/Exclude comment/post counts from Categories

Save Options

Top Contributor Icon Options:

- Top Contributor Icon:** Show 'Top Contributor icon' next to Username in comments. (Description: This option gives your loyal blog followers and contributors some recognition by adding a little icon next to their name in all of their comments. By default this is a Star, however it can be changed to any icon you want by uploading the new image to the plugin image directory .../plugins/top-contributors/images .)
- Icon Image:** star.png
- Comment Threshold:** 0 (Description: Use Comment Threshold value to display icon next to commenters that have X amount of comments or more. Setting to 0 will use default setting of top 10 commenters.)

[Advanced Threshold Use](#)

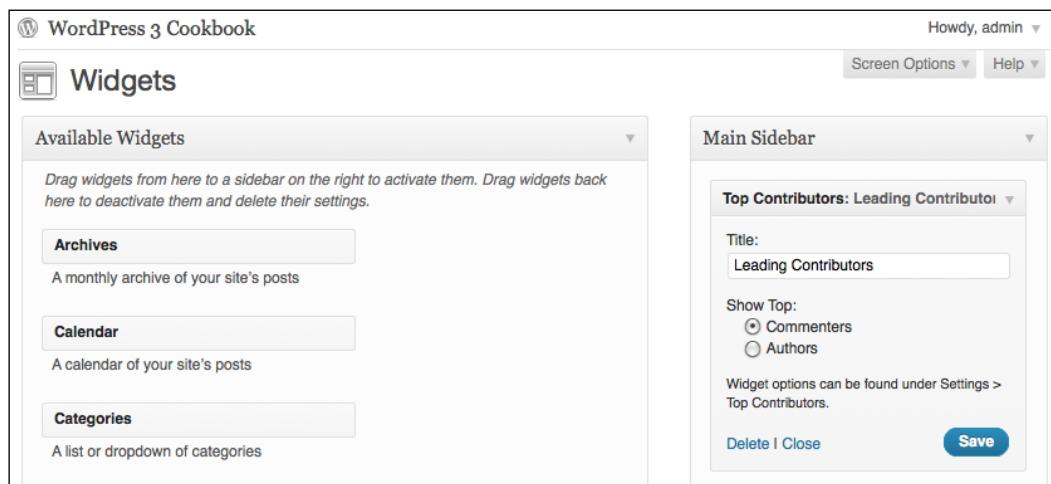
Save Icon Options

Thank you for creating with WordPress. • Documentation • Freedoms • Feedback • Credits Version 3.2.1

5. Click on the relevant **Save** button.

Now that the plugin is configured, you still need to set up the widget to display the list of top contributors on your site. To set up the widget, follow these steps:

1. Click on the **Appearance** menu.
2. Click on the **Widgets** option.
3. Click and drag the **Top Contributors** widget to the sidebar where you wish it to appear.
4. In the widget options, shown in the following image, give the widget a name and select whether it will show top commentators or the top authors.
5. Click on the **Save** button.



The widget should now be visible on your site.

How it works...

The plugin does all the work here; it looks into the database to obtain the information on all the users. Your configuration options simply tell it how to filter the users and which to display.

Displaying author-related information on posts

It's always good for the reader to know the author of the article that they're currently reading. It's even better if they can learn some extra information about the author, such as his website, a short bio, and so on. While many modern themes offer the option to display author info on posts, if your theme does not, you may want to consider adding this information to your posts, as it benefits both your site visitors and your authors.

In this recipe, you'll learn how to edit your `single.php` theme file to automatically retrieve the author-related information, and display it at the top of the page.



Note that many themes today offer the option to display author info, photos, or avatars. This recipe, therefore, is intended for themes that lack this capacity.

Getting ready

All you need to execute this recipe is your favorite text editor and access to the theme files of your WordPress installation.

How to do it...

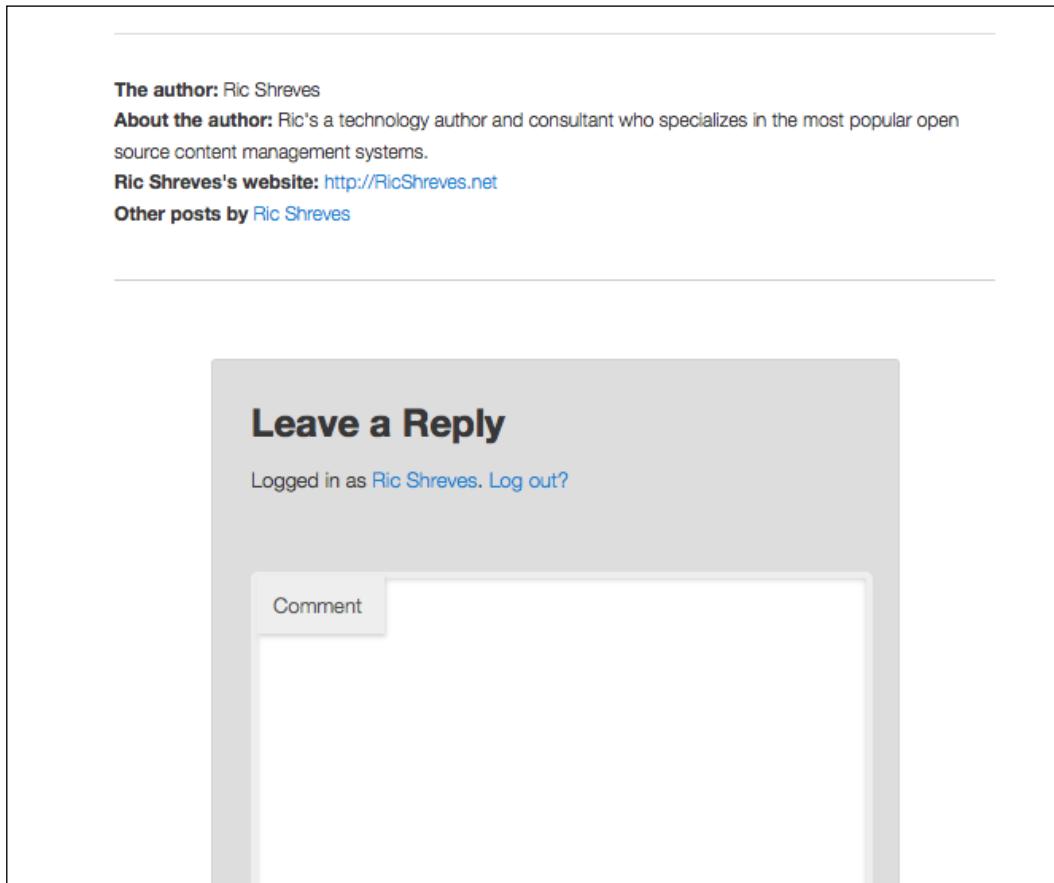
Once you have made sure that your authors have successfully filled in their information, you can start coding by carrying out the following steps:

1. Access your WordPress installation.
2. Find the directory containing your active theme's files.
3. Open the `single.php` file for editing.
4. Find the loop, and paste the following inside it:

```
<div id="author-info">
    <strong>The author:</strong><?php the_author(); ?><br />
    <strong>About the author:</strong><?php the_author_
meta('description'); ?><br />
    <strong><?php the_author(); ?>'s website:</strong><a
    href=<?php the_author_meta('user_url'); ?>"><?php the_author_url();
    ?></a><br />
    <strong>Other posts by</strong><?php the_author_posts_link(); ?>
    </div>
<br />
<hr />
<br />
<!--/author-info-->
```

5. Save the file.

If you access your site now you will see the following appended to the post pages:



How it works...

WordPress provides a dozen author-related template tags, which are an easy way to retrieve information that is entered by authors in their profile. The tags rely upon the data entered into the user's profile. Users can either enter that themselves, or it can be added by an administrator with privileges sufficient to edit the users.

There's more...

The code in this recipe relies on the use of template tags, primarily `the_author_meta()`, which includes a number of parameters that provide the output in this recipe. Here's a listing of the more useful parameters for this key template tag:

Parameter	Output
► description	The author's description (Bio)
► user_firstname	The author's first name
► user_lastname	The author's last name
► nickname	The author's nickname
► author_url	The author's website URL
► aim	The author's AIM screen name
► yim	The author's Yahoo! Messenger email

Displaying the author's avatar on posts

WordPress provides site administrators with multiple options for adding user images. By default, the system supports several choices, including the popular Gravatar service.

In this recipe, we'll show you how to display the author's avatar on posts. This recipe is a good complement to the previous recipe showing how to display author info on a post.



Note that many themes today offer the option to display author info, photos, or avatars. This recipe, therefore, is intended for themes that lack this capacity.

Getting ready

All you need to complete this recipe is a text editor and access to your WordPress theme files on your server.

How to do it...

1. Access the WordPress installation on your server.
2. Open for editing the `single.php` file of your active theme.
3. Locate the loop.
4. Add the following line of code inside the loop, where you want the avatar to appear:
`<?php echo get_avatar(get_the_author_meta('user_email')); ?>`
5. Save the file.

How it works...

This recipe uses `the_author_meta()` function we saw earlier in this chapter. In this case, we use the function to retrieve the avatar image associated with the author and display it on the page.

Allowing multiple authors on posts

In a multi-author blog, sometimes an author starts a post and another one finishes it. Or, perhaps, two or more contributors share their ideas and create a great article together.

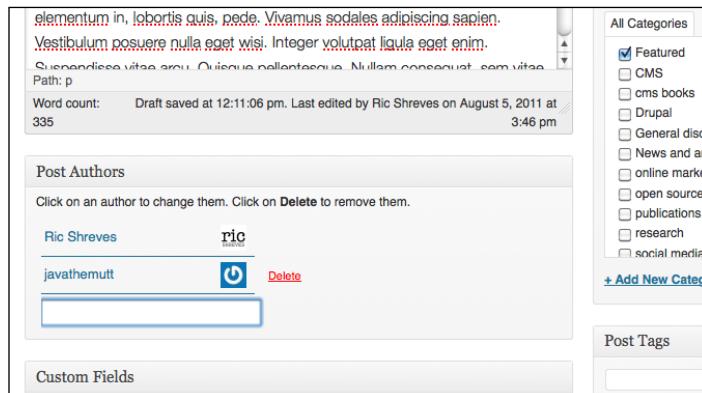
Unfortunately, by default, WordPress allows only one author per post. Although this is good for most blogs, it can quickly become very frustrating for contributors on a multi-author blog. Just imagine that two authors have worked together to write a post, but only one can be rewarded; that's not a very comfortable situation for either of them.

Luckily, there is a WordPress plugin that allows your site to assign more than one author to a post. The plugin is named Co-Authors Plus and in this recipe we look at implementing it on your site.

How to do it...

This plugin requires no additional configuration – simply install it and activate it and you are ready to go. To add additional authors to a post, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Open for editing a content item.
3. Scroll down to the area just below the editing window and you will see a new dialogue box on the page: **Post Authors**.
4. To add another author, start typing in the empty field you can see in the following image:



5. The system will attempt to autocomplete the author field for you as you type. As soon as you find the name you want, click on it and the system will automatically add it to the list of authors for the post.
6. Click the **Update** button to save your changes.

While the plugin requires no additional configuration, if you wish to display the additional authors on the front-end of the website, you do need to modify your template files. To add display co-authors on your site, follow these steps:

1. Access your WordPress installation on the server.
2. Open the directory for the active theme.
3. Open the file (or files) containing the loop.
4. Find the loop.
5. Insert inside the loop the following:

```
<?php if(function_exists('coauthors_posts_links'))  
    coauthors_posts_links();  
else  
    the_author_posts_link(); ?>
```

6. Save the file.

If you visit the front end of your website, you should see co-authors listed on the relevant items.



Note that the example shows just one way of achieving the output of the co-authors' names, in this case with a link to a page containing all the posts of each author. In the next section we look at other options you can use. Note also that the placement of the code inside the loop will affect the appearance. Typically you will want to place this code immediately beneath `the_title()` to maintain standard placement.

How it works...

The plugin simply associates registered users with posts. The additional template tags the plugin provides, discussed below, give you the flexibility to control the output.

There's more...

The plugin provides you with a set of co-author template tags, which function in a similar fashion as `the_author()` tags discussed earlier in this chapter. The new template tags are:

- ▶ `coauthors()`
- ▶ `coauthors_posts_links()`

- ▶ `coauthors_firstnames()`
- ▶ `coauthors_lastnames()`
- ▶ `coauthors_nicknames()`
- ▶ `coauthors_links()`
- ▶ `coauthors_IDs()`



For more insight into the options presented by the plugin's template tags, see http://wordpress.org/extend/plugins/co-authors-plus/other_notes/



Displaying a list of all of the authors

If your site features content from multiple contributors, then you might want to think about including a page listing all the authors, with links to their contributions. Not only is such a page potentially useful to your site visitors, but also your authors tend to appreciate it and additionally, it can increase your internal link density, thereby giving you a search engine advantage.

In this recipe, we look at creating a page listing all your site's authors, with links to their contributions.

Getting ready

To achieve this recipe you will want to create a page template to hold the output of the author listing; though this is not mandatory, it makes things a bit simpler and enables you to style the page effectively and without complication.

Once you have your page template created, all you need to complete this recipe is a text editor and access to the WordPress installation on your server.



Creating custom page templates is covered in *Chapter 2, Installing and Customizing Themes*.



How to do it...

There are two parts to this recipe. First, we must add a line of code to one of your page templates, and then we need to create and publish a page using the template:

1. Access your WordPress installation on your server.
2. Go to the directory containing the active theme.

3. Open the page template you created for this recipe (or any existing page template).

4. Add the following line of code where you want the list of authors to appear:

```
<?php wp_list_authors() ; ?>
```

5. Save the template file.

6. Log in to your WordPress **Dashboard**.

7. Click on the **Pages** menu.

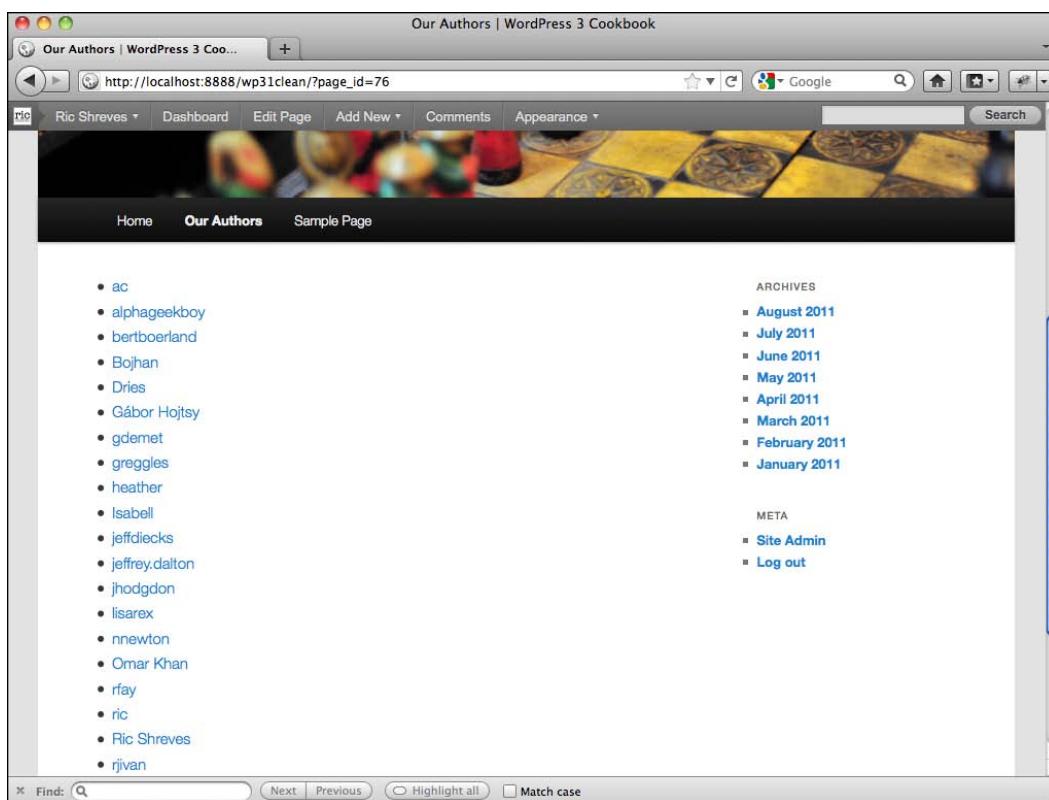
8. Click on the **Add New** link in the **Pages** menu.

9. Give your new page a title.

10. Select from the **Page Attributes** section in the right column the **Template** that holds the code above.

11. Publish the page.

If you now visit your site, you can visit the page created, where you should see something similar to the following screenshot:



How it works...

To display the list of your authors, you only need the `wp_list_authors()` function. This function can be inserted anywhere into your theme files. Once called, `wp_list_authors()` executes a database query to get the list of authors. The function can be controlled with parameters.

There's more...

The `wp_list_authors()` function offers several parameters, as shown in the following table:

Parameter	Description
<code>echo</code>	Display the results.
<code>exclude_admin</code>	Exclude the admin account from the list.
<code>feed</code>	Display a link to the author's RSS feed.
<code>feed_image</code>	Display the graphic from the author's RSS feed.
<code>feed_type</code>	The type of feed.
<code>hide_empty</code>	Do not display authors with no posts.
<code>html</code>	Determines whether the list of items is in html or plain text.
<code>orderby</code>	Sort the results.
<code>number</code>	The maximum number of users to display.
<code>optioncount</code>	Display the number of posts published by each user.
<code>order</code>	Order, ascending or descending.
<code>show_fullname</code>	Display the first and last name of the users.
<code>style</code>	Style in which to display the list.



To learn more about the `wp_list_authors()` function, visit http://codex.wordpress.org/Function_Reference/wp_list_authors

Creating community with BuddyPress

In this chapter we've looked at a number of recipes that add little bits of functionality designed to improve interactivity and encourage community. There is, however, one plugin that is built to help you create a full-featured community site. The BuddyPress plugin provides turnkey social networking functionality. Among the features included in this plugin:

- ▶ Forum
- ▶ Groups
- ▶ Member directory
- ▶ Activity stream
- ▶ Custom user profile creation

Of course, in addition to those features, you still have available the full range of standard WordPress functions and it's all extensible too, with a large number of plugins you can install to further customize BuddyPress to your needs.

It's a complex package, but very well done. BuddyPress is not your typical plugin; it literally transforms how your site handles users and the way that they interact with content and with each other. Be certain you need the richness of BuddyPress before you install it, as it represents a significant change in the nature of your site.

In this recipe we look at the basic setup needed to get you up and running quickly.



To get a better idea of what this plugin is capable of, visit the Showcase page on the BuddyPress site at <http://buddypress.org/showcase/>



Getting ready

To execute this recipe, you will need to install the BuddyPress plugin. You will need to install this plugin before you can get started. Search for **BuddyPress** inside the Add New Plugins screen of your WordPress site. After you find it, click on it to install, and then activate it.



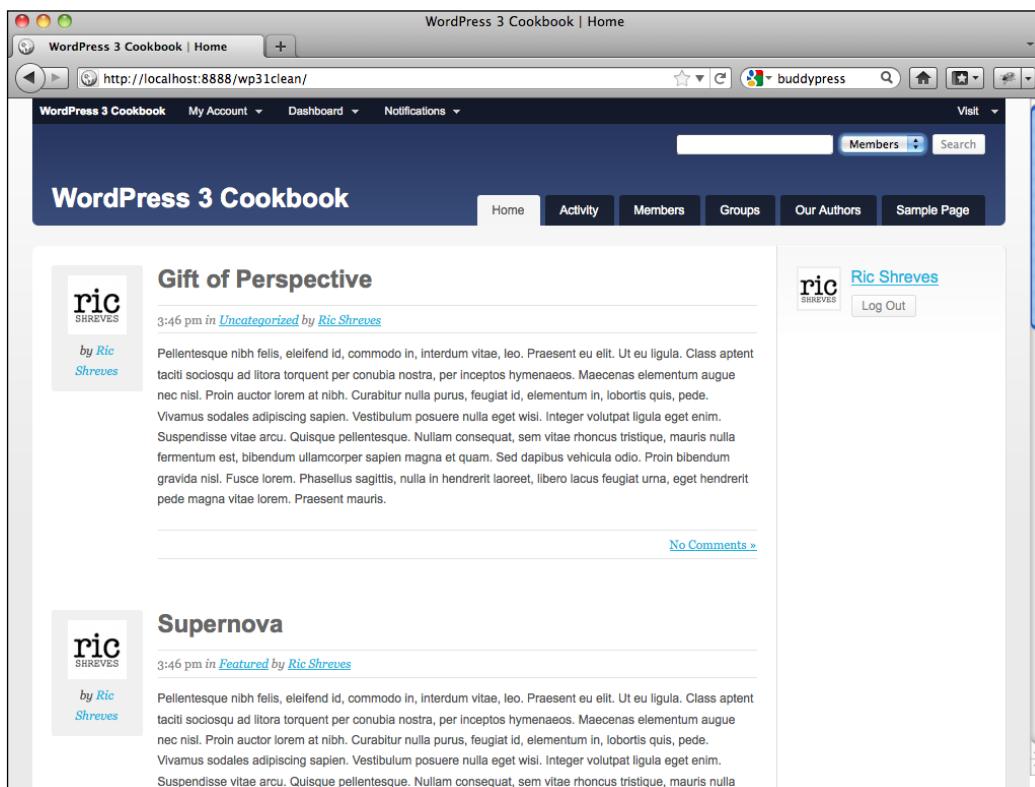
You can learn more about the plugin by visiting the developer's site at <http://buddypress.org>



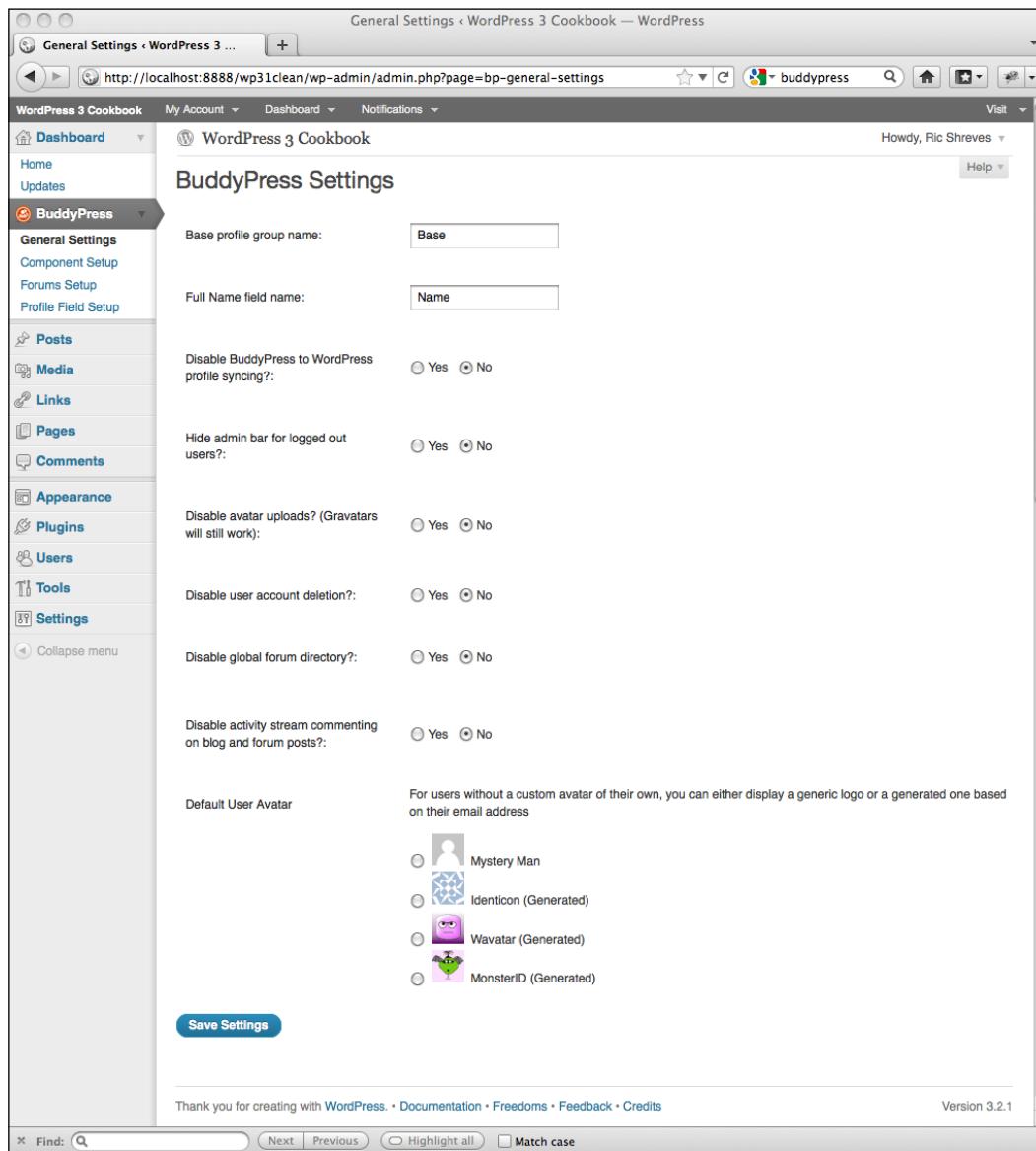
How to do it...

BuddyPress is a complex plugin and requires a bit of configuration if you want to get the most out of it. Follow these steps to get up and running quickly:

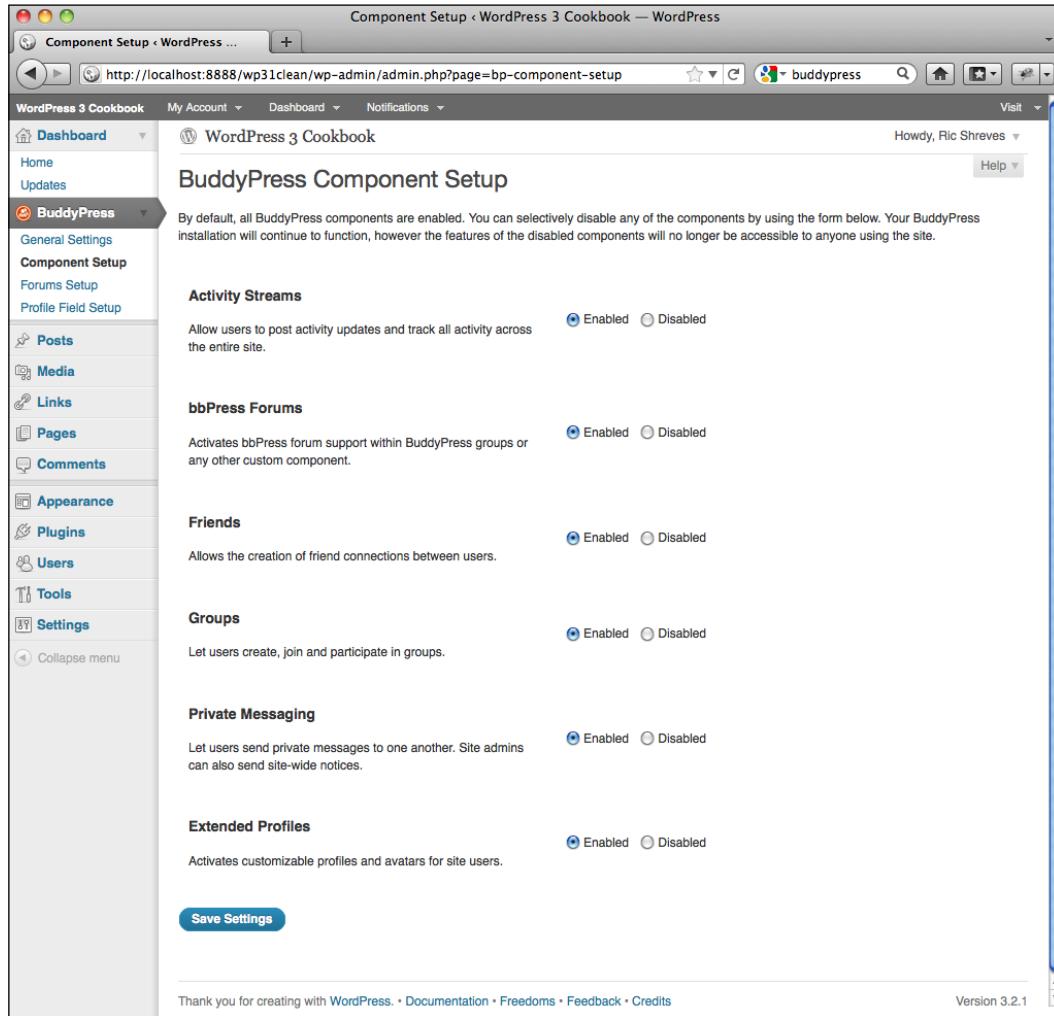
1. Log in to your WordPress **Dashboard**.
2. If you've just installed and activated **BuddyPress**, you may see a warning message at the top of the **Dashboard**, advising you to adjust your permalinks settings. **BuddyPress** will not work with the default permalinks settings. If you see a warning message, follow the given link and change the permalinks settings to anything other than the default option.
3. Click the **BuddyPress** option on the admin menu.
4. On the page that loads, you will likely see a message prompting you to select a **BuddyPress** compatible theme. If you see that message, click on the link labeled **activate a BuddyPress compatible theme**. Clicking on that link will take you to the themes page where you need to activate the **BuddyPress** theme. Once you have done that, return to the **BuddyPress Settings** page by clicking on the **BuddyPress** link on the admin menu. The default **BuddyPress** theme can be seen in the following screenshot:



5. The **General Settings** options, seen in the following image, establish some basic behaviors for the system. The default values are likely to be OK for most sites, but if you need to make adjustments, do so, then click on the **Save Settings** button.



6. Click the **Component Settings** link on the **BuddyPress** menu. Select the components you wish to use from the list, seen in the screenshot below. By default, all components are active. Note that if you enable the **bbPress Forums** option, you will need to complete the **Forums Setup**, in the next step.



7. If you enabled the **bbPress Forums** option on the previous screen, click on the **Forums Setup** option on the **BuddyPress** menu.
8. The screen contains two buttons: If you have an existing bbPress installation, select the second. If you need to set up bbPress, click the button labeled **Set up a new bbPress installation**. The system will then automatically set up the forum and add a link to your main nav.

9. The final step in the initial configuration is add any custom profile fields you require, if any. If you wish to add fields to the user profiles, then click on the **Profile Field Setup** link under the **BuddyPress** menu.
10. Click on the **Add New Field** button, as shown in the following screenshot:

Field Name	Field Type	Required?	Action
Name (Core Field)	textbox	✓	Edit Delete
Favorite Color	textbox	--	Edit Delete

11. The **Field Title** is required, but the **Description** is optional. Also select whether the new field will be required for users and the **Field Type**.
12. Click on the **Save** button.

The BuddyPress plugin is now ready to go. Visit the front-end of the site to explore the options.

How it works...

Though there is a lot going on, the BuddyPress plugin does all the work in this recipe.

See also...

- ▶ [Adding a forum into your site](#)

Adding a simple gallery to your site

If you've ever wanted to add a photo gallery to your WordPress site, you'll be glad to know that there is a gallery functionality built into the system. In this recipe we look at using the default gallery feature inside a post or a page; in the latter portions of this recipe, we dive into adding the gallery directly into a template file.

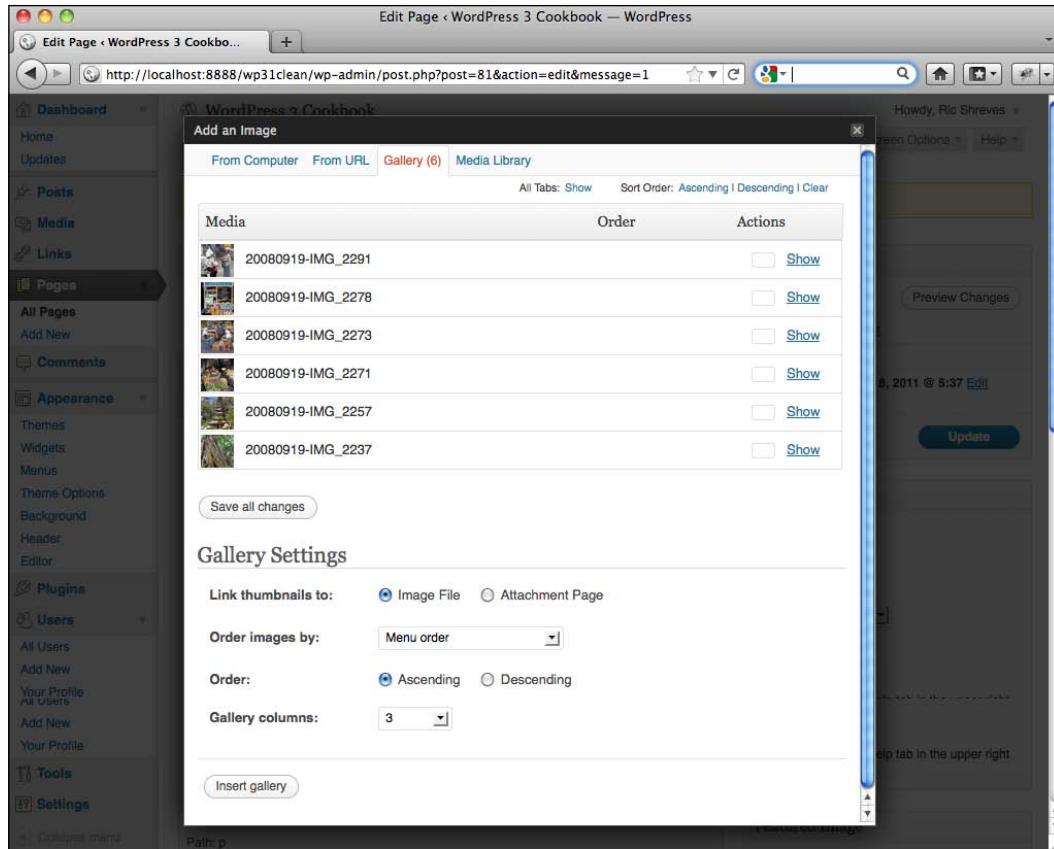
Getting ready

You don't need anything special to complete this recipe, only access to your server and your favorite code editor.

How to do it...

Let's create a new page and use it to hold a photo gallery. Follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Pages** link on the admin nav.
3. Click on the option **Add New**.
4. Name the new page **The Gallery**.
5. Click on the **Media** icon, next to the **Upload/Insert** label.
6. Upload the images you want to appear in your gallery. As you upload each, select **Save All Changes**, but do not insert the photo into the page.
7. On the **Gallery** tab, shown in the next screenshot, select the **Gallery Settings** you wish to use.

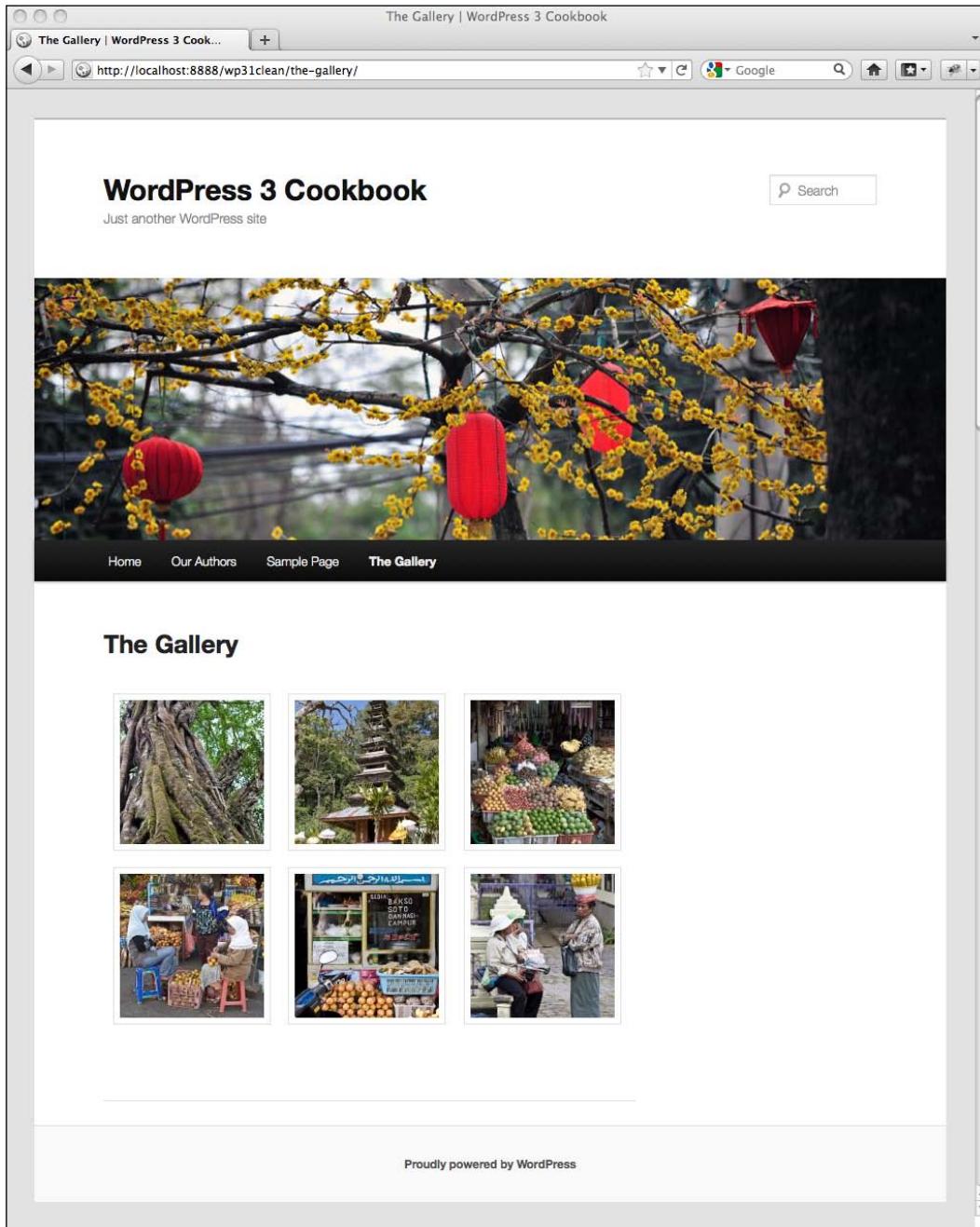


8. Click on the **Insert gallery** button.

9. **Publish** the page.

Building Interactivity and Community —————

If you visit your site, and click on the link to the new page named **The Gallery**, you should see something similar to what is shown in the following screenshot:



How it works...

The gallery functionality is built into WordPress; you simply need to tell the system what images to use and which page or post you wish to use to hold the gallery. As you will see in the next section, you also have the option to use a shortcode.

There's more...

The gallery feature can also be inserted into content items or templates using the `[gallery]` shortcode. To use the code in a content item, first create the gallery by uploading images, then switch to the HTML editor for the content item and type the shortcode where you want the thumbnails to appear.

The shortcode can also be used inside templates, but the syntax is slightly different. To place a gallery inside a template, put this line of code where you want the thumbnails to appear:

```
<?php echo do_shortcode(' [gallery] ') ; ?>
```

The gallery shortcode also includes a number of optional parameters. The following table shows the options available:

Parameter	Description
Columns	Number of columns for the thumbnails
Link	How each image will be linked
orderby	How to order the images
size	The size of the images to display
id	Instructs the gallery to display the images from a specific post ID
include	Include specific images
exclude	Exclude specific images

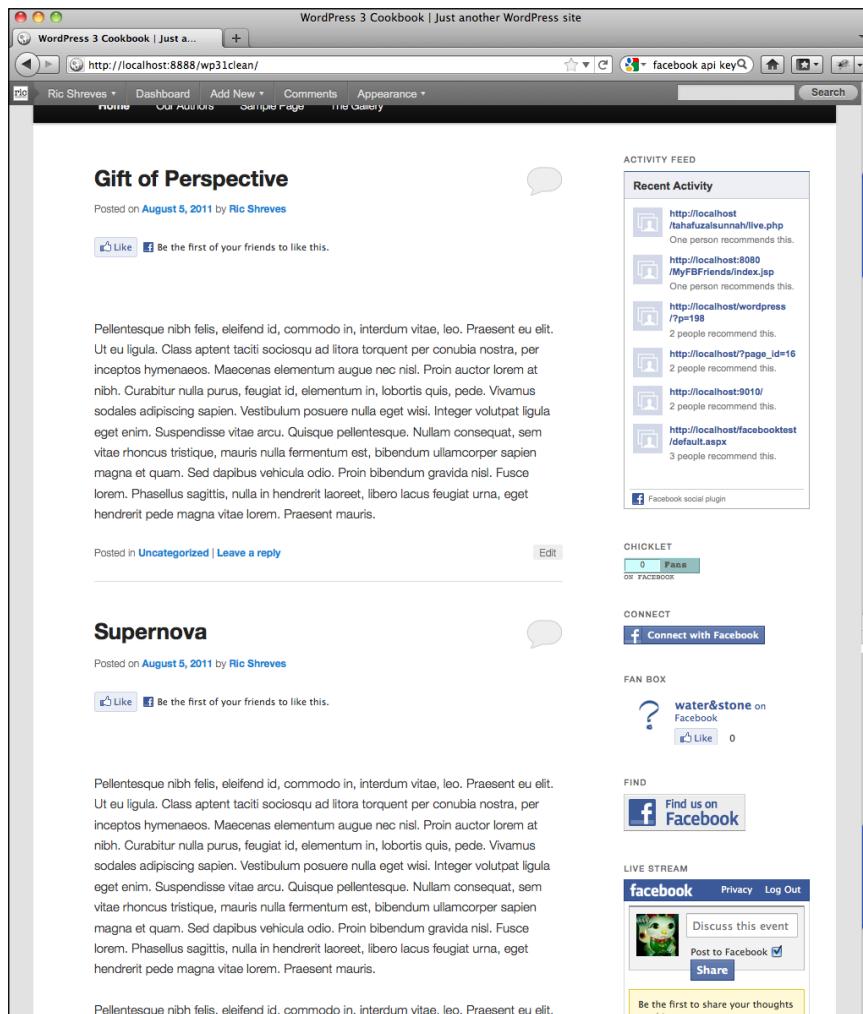


You can learn more about the WordPress gallery shortcode by visiting the WordPress Codex at http://codex.wordpress.org/Gallery_Shortcode

Bringing Facebook functionality into your site

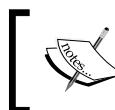
The Facebook API offers website owners access to a variety of features. By connecting with the API, you can display widgets of Facebook content and user activity, allow users to log in using their Facebook I.D., or let them post your content to their Facebook account.

In this recipe we implement the Simple Facebook Connect plugin, which gives you access to a wide assortment of Facebook features that you can use to enhance your site. The following screenshot shows just some of the functions supported by the plugin (though obviously you'd never want to display them like this on your site!):



Getting ready

To execute this recipe, you will need to install the Simple Facebook Connect plugin. You will need to install this plugin before you can get started. Search for **Simple Facebook Connect** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it. Visit the installed plugins page to see the full list of items added by this plugin – it is extensive. Activate all those you wish to use.



You can learn more about the plugin by visiting the developer's site at <http://ottopress.com/wordpress-plugins/simple-facebook-connect/>

Additionally you will need to have access to the Facebook API. To get the access you need, go to <https://developers.facebook.com/apps>, click on the **Create new App** button, and follow the steps outlined there.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on **Settings** on the main admin nav.
3. Click on the option **Simple Facebook Connect** in the **Settings** menu.
4. In the space provided, enter your **Facebook API Key**, as shown in the following screenshot:

The screenshot shows the WordPress Admin dashboard with the title 'Simple Facebook Connect - WordPress 3 Cookbook — WordPress'. The left sidebar has a 'Settings' menu open, with 'Simple Facebook Connect' selected. The main content area is titled 'Simple Facebook Connect' and contains a form for 'Main Settings'. It includes fields for 'Facebook API Key', 'Facebook Application Secret', and 'Facebook Application ID', each with '(required)' below it. A note explains that these fields are for an application wall, not a fan page. To the right, there are two boxes: 'About the Author' (with links to the developer's blog and social profiles) and 'Facebook Platform Status' (listing recent changes and logs).

5. Enter your **Facebook Application Secret**.
6. Enter your **Facebook Application ID**.
7. Click the **Save Changes** button.

Next, you need to get the widgets assigned to the pages.

1. Click on the **Appearance** menu.
2. Click on the **Widgets** option in the **Appearance** menu.
3. Click and drag all the widgets you wish to appear on the site.
4. Configure any widgets that require additional information.

How it works...

The functionality supplied by this plugin is all derived directly from Facebook. The plugin uses your APIR credentials to access the Facebook system and display the output on your pages.



Expect that as Facebook makes changes to their offerings, that this plugin, and possibly the functionality, will change.

See also...

- ▶ *Adding social bookmarking buttons to your site*

Integrating a Twitter stream into your site

Twitter is a free micro blogging service that allows you to post short messages (less than 140 characters). Given the popularity of Twitter, we thought to include a recipe that allows you to integrate Twitter streams into your WordPress site.

There are quite a few plugins out there that let you bring Twitter content into your site. The Twitter Goodies Widget profiled in this recipe was chosen due to its flexibility and the fact that it relies on functionality provided directly by Twitter. The plugin allows you to display all four of the widget styles provided by Twitter and you can show these either in your site's widgets, or in your content items through the use of a shortcode.



You can also grab the widget code directly from Twitter and integrate it into your site manually, if you prefer. Visit <http://twitter.com/about/resources/widgets>



Getting ready

To execute this recipe, you will need to install the Twitter Goodies Widget plugin. You will need to install this plugin before you can get started. Search for **Twitter Goodies Widget** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's site at <http://netweblogic.com/wordpress/plugins/twitter-goodies-widgets/>



How to do it...

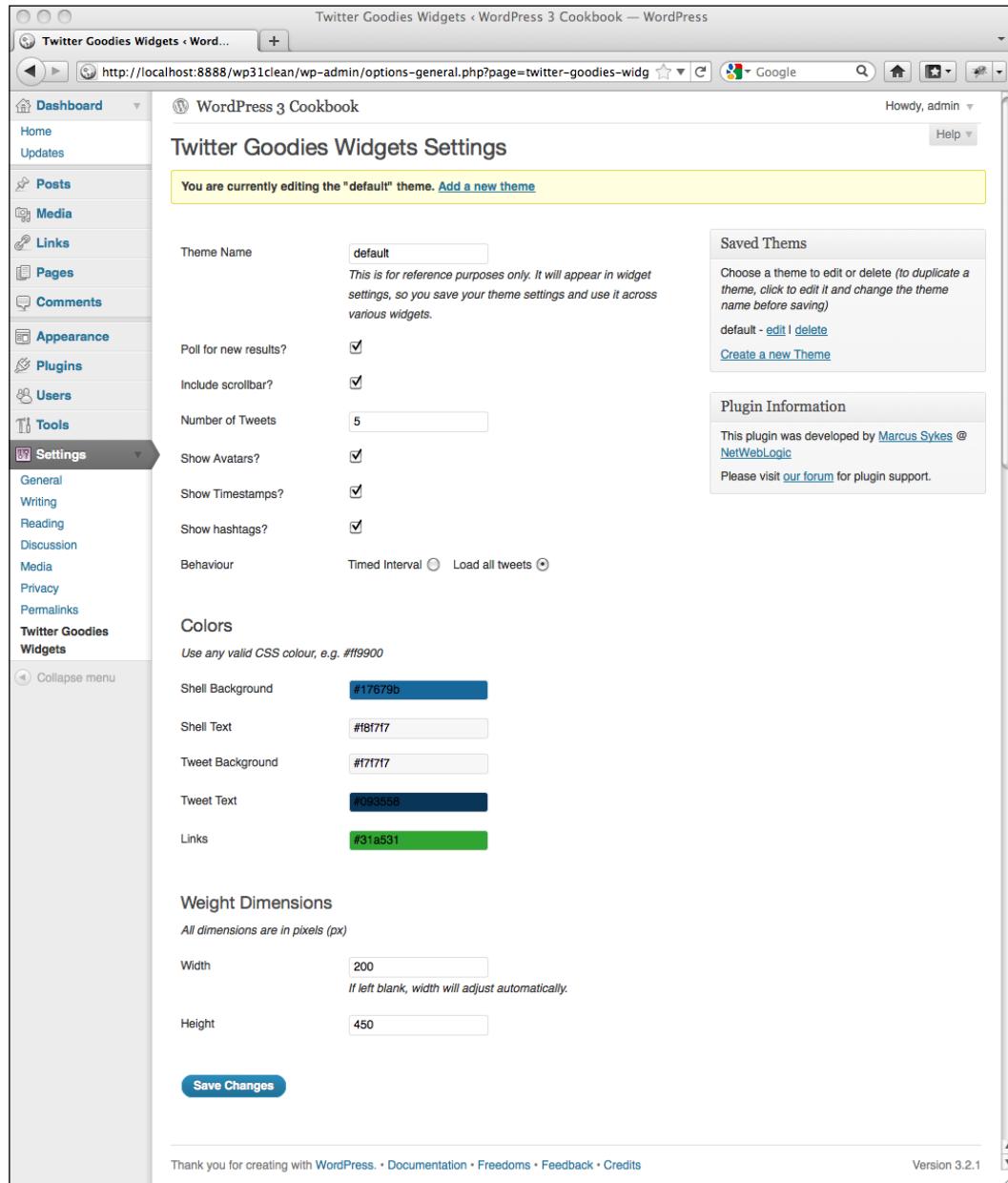
There are two parts to this recipe. First, you need to configure the plugin. Second, you need to set up the WordPress widget to display the output.

To configure the plugin, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the **Twitter Goodies Widget** link in the **Settings** menu.
4. Enter a name in the field marked **Theme Name**, as seen in the next screenshot. This name will appear in the widget options when you set up the widget later.
5. Select any other options you want on this page, including the color scheme.

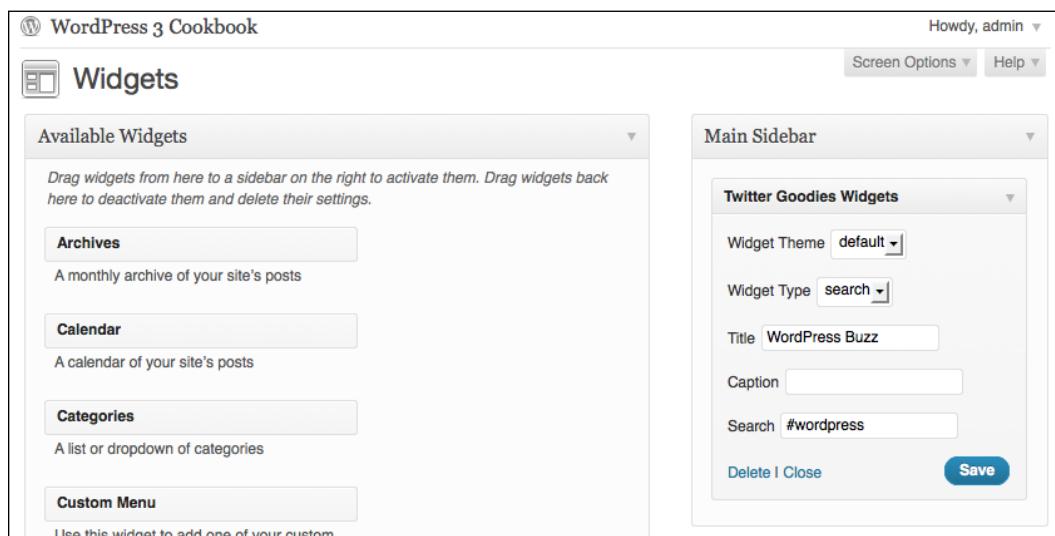
Building Interactivity and Community

6. Click the **Save Changes** button.



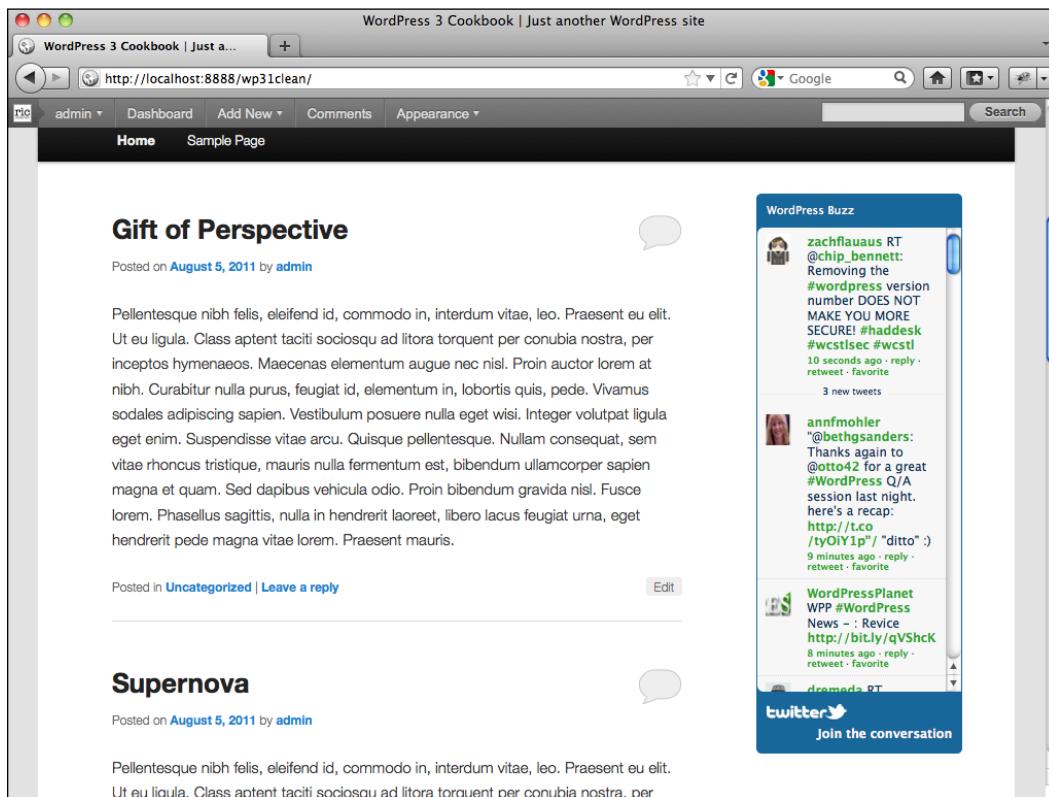
The plugin is now ready to go. Let's place the output on the screen through the use of the WordPress widget that comes with the plugin. Follow these steps:

1. Click on the **Appearance** menu option.
2. Click on the **Widgets** choice on the **Appearance** menu.
3. Click and drag the widget named **Twitter Goodies Widget** to the sidebar where you want it to appear on your site.
4. Inside the **Twitter Goodies Widget**, select from the combo box the **Widget Theme** you wish to use (this is the theme you set up in the previous part of this recipe).
5. Select the **Widget Type** you want to display.
6. Most other values are optional, with some exceptions: If you select **List**, you will need to also choose the list to display. If you choose **Profile** or **Faves**, you must enter a username. If you choose **Search**, you must enter a search query.
7. When you've finished, click on the **Save** button.



Building Interactivity and Community

View the front end of your site to view the widget. In the next screenshot, you can see the Twitter search widget in action.



How it works...

The Twitter Goodies Widget leverages the widget capabilities offered by Twitter. Your choices mirror those options available on the Twitter site:

- ▶ **Faves:** Show all those tweets starred as favorites by a specific Twitter user account
- ▶ **List:** Show the members of one of the lists on a Twitter user's account
- ▶ **Profile:** Show the tweets from one specific Twitter user account
- ▶ **Search:** Set up a search of all Twitter users' posts

The various configuration options likewise mirror the choices offered by Twitter.

There's more...

As mentioned at the outset of this recipe, the plugin also supports inclusion of a Twitter stream inside of content items, through the use of a shortcode. To embed a Twitter stream, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Open for editing the content item in which you wish to display the Twitter stream.
3. Click on the **HTML** tab to switch to the HTML editor.
4. Type `[tgw]` where you want the Twitter Goodies Widget to appear.
5. Save the content item.

6

Implementing Online Sales and Advertising

In this chapter, we will cover:

- ▶ Integrating Google Adsense
- ▶ Displaying ads in your posts by using WordPress shortcodes
- ▶ Managing ad visibility
- ▶ Inserting ads into your RSS feeds
- ▶ Showing your site stats to find advertisers
- ▶ Enhancing your advertise page by adding Paypal subscriptions
- ▶ Managing your advertising space with an ad manager
- ▶ Adding a shopping cart to your site

Introduction

Though not all site owners are concerned with generating revenue from their site, if you are concerned with making money with your site, then WordPress is a good choice. Not only is WordPress flexible enough to support a variety of business models, there exists a large number of plugins that are designed to help you turn your site into a source of income.

Monetizing a site is typically accomplished through one of two methods: either selling advertising, or selling a product or service. In this chapter, we look at tools and techniques that can help you with either business model. The chapter includes plugins that let you insert and manage ads on your site and we also look at how to add a shopping cart to your site to support checkout of products or services.

One of the most popular advertising programs, Google AdSense, is discussed in several recipes in this chapter. Additionally, if you wish to manage your own ad space and inventory, later recipes cover ad management.

 While accepting payment online is an important topic, we focus only on PayPal in this chapter, due to the many variables users must overcome to establish a relationship with a payment gateway. Between regional variations, variations in site content, and other facts, it is not possible to set out steps and processes that will be applicable to everyone.

Integrating Adsense

Google AdSense is one of the most popular platforms for integrating the display of paid advertising into your site. The service, provided free of charge by Google, allows you to display ads on the pages of your website through the insertion of a simple code. Google manages the ads and keeps them relevant to your content. When a visitor clicks on an ad, a portion of the revenues Google earns is credited to you. Google will then periodically pay out the earnings directly to you.

While there are other, and more lucrative advertising channels, there are few that have the ease of use of Google AdSense.

In this recipe we look at how to integrate AdSense ads into your site.

 In the later recipes in this chapter we look at setting up and managing direct advertising on your site.

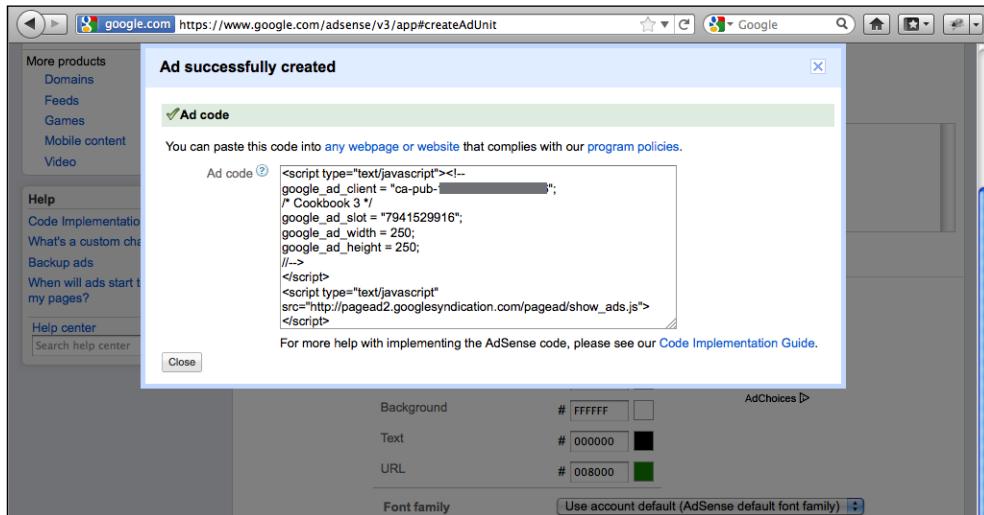
Getting ready

The first thing to do is to get the AdSense code to display ads on your blog. To get the code, connect to <https://www.google.com/adsense>. If you do not currently have an AdSense account, create one. If you already have a Google account for any service, you can add AdSense to that account. If you don't have a Google account, creating one is necessary to take part in the AdSense program.

Once you're connected to Google AdSense you have to create an advertisement. To do so, click on the **My ads** tab and click on the button labeled **New ad unit**.

You will be prompted to name and configure your new ad. One of the key steps is choosing an ad size. According to Google, the best performing ad sizes are 336 x 280, 300 x 250, and 160 x 600, but the decision ultimately depends on the space in your blog layout. Select the configuration options you prefer, and then click on the button labeled **Save and get code**.

As shown in the following screenshot, the next page will display your AdSense code. Copy that code; you will need it for this recipe.



To execute this recipe, you will also need to install the Quick AdSense plugin. You will need to install this plugin before you can get started. Search for **Quick Adsense** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

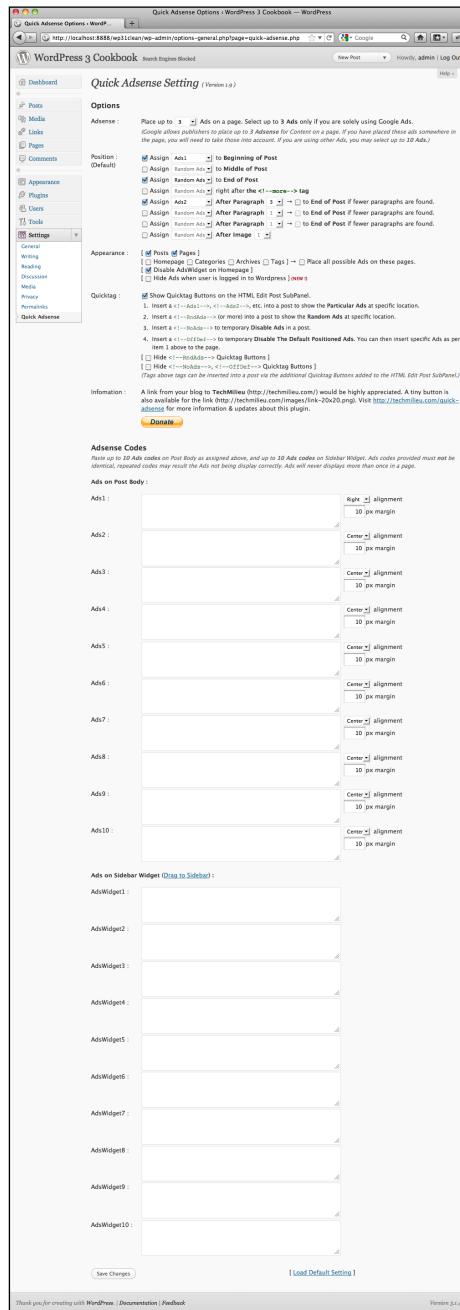


You can learn more about the plugin by visiting the developer's website at <http://quicksense.net/2009/09/16/quick-sense/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **Quick AdSense**.
4. From the **Position** controls, set where you want AdSense ads to appear on your site.
5. On the **Appearance** controls, decide whether you want the ads available on page, or posts, or a combination of these options.

6. Scroll down to the **AdSense Codes** section, as you can see in the following screenshot. Paste your AdSense code into the fields you need. For example, if you set **Ads1** to appear in the **Position** controls, then add your code into the field marked **Ads1**.



7. If you want to use widget positions for your ads, insert the code into the fields under the heading **Ads on Sidebar Widget**.
8. When you've finished, click **Save Changes**.

Your ads will now appear automatically, as per your settings. If you wish to display the ads in the widget areas, you will, however, also have to access the Widgets Manager and drag the appropriate ad widgets into the widget areas you wish to use.

How it works...

Once you insert your code into the plugin, your work is done. The plugin will handle the placement on the screen and Google will manage the ads. In the next section of this recipe we look how some other options for using AdSense, including manual placement of the code to bypass the plugin.

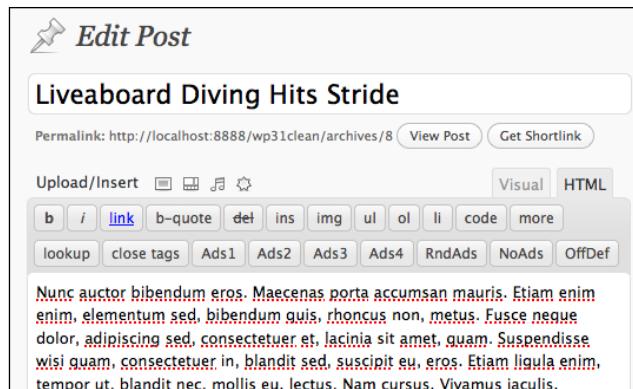
There's more...

The Quick AdSense plugin offers you another interesting option, that is, adding ads directly into posts or pages where you want them. To use this feature of the plugin, you will use what the plugin calls quicktags – a concept very similar to WordPress shortcodes.

Integrating AdSense using quicktags

Once the plugin is activated, you also have to make sure the Quicktags options are selected in the plugin configuration. This is enabled by default, as you can see in the preceding screenshot. Once you have confirmed that the feature is enabled, follow these steps:

1. Open for editing the page or post to which you wish to add the AdSense ads.
2. Click the **HTML** tab to switch to the HTML editor.
3. You will note on the editor bar there is a set of new buttons, corresponding to the number of ads you set up. You can see the buttons in the following screenshot:



4. Place the cursor where you want the ad to appear.
5. Click on the button for the ad number you want to appear.
6. Click on the **Update** button to finish and update the post.

Integrating AdSense manually

The first method is to insert the code directly into your theme files. To do so, follow these simple steps:

1. Open the file where you'd like the ads to be displayed, for example, `index.php` (your homepage), `sidebar.php` (your blog sidebar), or `single.php` (single posts pages).
2. Paste your AdSense code. Make sure that you're not inserting your Google AdSense code within PHP tags, (`<?php` and `?>`) as you'll probably get a parsing error.
3. Save the file. Your AdSense ads are now displayed on your blog. Please note that sometimes it can take up to 15 minutes until the first ads are displayed.

The second method is to use a text widget to display your AdSense ads.

Text widgets can't display PHP code, but they can display the JavaScript code used by Google AdSense.

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the **Widgets** option.
4. Add a text widget to your sidebar.
5. Paste your AdSense code in the widget body.
6. You can also give a title to the widget, but this isn't recommended. Google AdSense terms and conditions don't allow text such as **Please visit** or **Recommended** above AdSense ads. You shouldn't give any title to the widget.
7. Click on the **Save** button of the widget to record your changes in this widget.

Displaying ads anywhere in your posts by using WordPress shortcodes

In the previous recipe, we looked at how to add Google AdSense ads to your site by using a plugin or by using a text widget. However, there is another option—enabling your site to display ads anywhere in your posts through the use of a WordPress shortcode.

Introduced in WordPress 2.5, shortcodes are powerful WordPress functions.



If you use forums such as phpBB or Vbulletin, you're probably familiar with the use of shortcodes; the concept in WordPress is similar.



One of the most powerful features of WordPress shortcodes is that you are able to create your own shortcodes. In this recipe, you'll learn to create a WordPress shortcode dedicated to inserting AdSense ads anywhere in your posts.

Getting ready

To execute this recipe, you'll need an AdSense code, as described in the previous recipe. You will also need a code editor and need access to your WordPress theme files on your server.

How to do it...

Follow these simple steps to get started:

1. Open your `functions.php` file.
2. Enter the following code. Don't forget to replace the AdSense code provided here by yours!

```
function cookbook_showads() {  
    return '<script type="text/javascript"><!--  
    google_ad_client = "ca-pub-xxxxxxxxxxxx";  
    google_ad_slot = "7941529916"; google_ad_width = 250;  
    google_ad_height = 250; //-->  
</script>  
<script type="text/javascript"  
    src="http://pagead2.googlesyndication.com/pagead/show_ads.js">  
</script>  
';  
}  
add_shortcode('adsense', 'cookbook_showads');
```

3. Save your `functions.php` file.

Your system now has a new shortcode available: `adsense`. To insert it into a post, follow these additional steps:

1. Open any of your published posts for editing.
2. Switch to the HTML editor by clicking on the **HTML** tab.

3. Insert the following shortcode anywhere in the post code, where you'd like AdSense to be displayed:
[adsense]
4. Save your post.

How it works...

Shortcodes are handled by a set of functions called the **shortcode API**. When a post is displayed, post content is parsed and the shortcode API automatically transforms shortcodes into what they're supposed to be.



You can learn more by visiting the WordPress API at
http://codex.wordpress.org/Shortcode_API

In this recipe, we started by creating a very simple PHP function, called `cookbook_showads()`, to return the AdSense code. Then, we used the `add_shortcode()` function to create a shortcode by using the `cookbook_showads()` function.

Managing ad visibility

All web site owners who are interested in selling advertising on their site need to be concerned about **click through rates (CTRs)**. For example, your CTR is one percent if your ads are displayed to 100 visitors and only one of them clicked on it.

A high CTR is usually a sign of good matching of ads to content and to visitors. The higher your CTR is, the more money Google earns from your ads. If they display some ads on your website, but no one clicks on them, they don't earn any money and that space is a waste for them.

Low CTR is also an issue for you as a site owner. Many AdSense users who have a CTR below one or two percent see their AdSense earnings dramatically decrease. Google calls this policy Smart Pricing, and as a site owner, it means that clicks on your ads will only get about 10 percent of what they are normally worth. As we can't do anything to fight the Smart Pricing policy, the best thing you can do is to try and avoid being Smart Priced.

Many search engine specialists agree that people coming from search engines tend to click more on the ads on a site. Your readership (such as RSS subscribers) don't often click on your ads.

In this recipe, we'll look at a plugin that helps you display your ads to the most likely visitors, while hiding them from those less likely to click. The net effect is that you will see an improvement in your CTR. The plugin is called Who Sees Ads.

Getting ready

To execute this recipe, you will need to install the Who Sees Ads plugin. You will need to install this plugin before you can get started. Search for **Who Sees Ads** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://planetozh.com/blog/my-projects/wordpress-plugin-who-sees-ads-control-adsense-display/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **Who Sees Ads**.
4. On the **Who Sees Ads** configuration screen, shown in the following screenshot, the first thing you have to do is to create a context. A context is simply a condition, or a set of conditions, that control the display of an ad. By default, you can select one or more of the following:
 - If visitor comes from a search engine, display / don't display
 - If visitor is a regular reader, display / don't display
 - If post is older than XX days, display / don't display
 - If visitor is logged in, display / don't display
 - If date is between specified date interval, display / don't display
 - If ad has been showed fewer than XX times, display / don't display
 - If this visitor has viewed this ad fewer than XX times, display / don't display
 - If all previous conditions fail, try another context
 - If any condition, display / don't display
5. Provide a name for the context in the **Name of the Context** field.
6. Select one or more of the possible rules.
7. In the **Ad code** text area, paste your AdSense (or other) code.
8. Click on the **Save context** to save your context. It is now ready for use.

Implementing Online Sales and Advertising

9. To insert ads, use the following code in your posts (after turning WordPress editor to HTML mode):

```
<!--wsa:context_name-->
```

The screenshot shows the 'Who Sees Ads' plugin settings page within the WordPress 3.1.4 admin interface. The left sidebar includes links for Dashboard, Posts, Media, Links, Pages, Comments, Appearance, Plugins, Users, Tools, and Settings. Under Settings, there is a 'Who Sees Ads' section. The main content area is titled 'Who Sees Ads?' and contains the following sections:

- Who Sees Ads?**: A brief description of the plugin, mentioning it's an advanced ad management plugin that lets you decide who will see your ads based on user-defined conditions.
- Create Contexts**: A button to 'Create this Context'.
- Example**: An example rule: 'Let's say you have an ad somewhere in your sidebar. You want this ad to be always hidden to regular readers, and displayed for others. This context named example-sidebar would have the following rules:
If [Regular Reader] then [Don't Display]; Otherwise: If [Anything] then [Display];'
- Example**: Another example rule: 'You have an ad right after every post. You want the following: the ad would not display while the post is fresh, but after 15 days, show the ad. But not for regular readers. On top of these rules, if anyone comes to the post from a search engine, disregard any previous rule and always show an ad. Here is how you would define this context example-post-bottom:
If [From Search Engine] then [Display]; Otherwise: If [Regular Reader] then [Don't Display]; Otherwise: If [Post Older than 15 Days] then [Display];'
- Edit Context**: A section where you can name a new context ('Name:'), view PHP code ('Posts: <!--wsa:context_name-->'), and edit possible rules.
- Possible Rules**: A list of rules:
 - If Visitor comes from a search engine then display
 - If Visitor is a regular reader then display
 - If Post is older than 20 days then display
 - If Visitor is logged in then display
 - If Date is between 02/07/2011 & 02/08/2011 then display
 - If Ad displayed <= 1000 times then display
 - If Ad viewed by visitor <= 1000 times then display
 - If Previous conditions fail, try another context (not enough created)
 - If Any condition then display
 - If (() ()) { display }
 - If (() ()) { display }
- Active Rules**: A list of active rules.
- Ad Code**: A text area for pasting the generated ad code.
- Optional Comment**: A text area for optional comments.
- Save context**: A button to save the context.
- Global Options**: A section with options:
 - Old post**: A note that 'old post' is a post or page which has been posted more than 20 days ago.
 - Regular Reader**: A note that a 'regular reader' is someone who has viewed at least 2 pages over the last 10 days.
 - Click Safety**: A note about the Admin Clicks Safety option being disabled.
 - Date format**: A note about preferred date formats.
- Update Options**: A button to update global options.
- Display the short explanation & wizards at the top of this page**: A checkbox.
- PayPal Buttons**: Buttons for PayPal donations.
- Thank you for your support!**: A note expressing gratitude for plugin users.
- If you like this plugin, check my other WordPress related stuff!**: A link to the author's other WordPress-related projects.

How it works...

The **Who Sees Ads** plugin is a complex plugin. When you create a context, it is recorded in the WordPress database. When a visitor comes to the site, a PHP conditional statement is created and appended to your theme files and posts. This code contains PHP conditional statements to make sure that the current visitor matches the conditions established in the context.

There's more...

Like any other very advanced plugin, **Who Sees Ads** has a lot of options. Now that you have learned how to install and configure this powerful plugin, let's look at the available configuration options.

Global options

The **Who Sees Ads** plugin also allows you to set up global options such as what defines a regular reader, what is an old post, and so on.

Here are the possible options:

- ▶ **Old post:** The number of days after which a post is considered old
- ▶ **Regular reader:** How many pages a visitor must have seen in the last X days to be considered as a regular reader
- ▶ **Click safety:** If enabled, this option will not display any AdSense or Yahoo ads to the blog administrator
- ▶ **Date format:** You can choose to use two different date formats—the American mm/dd/yyyy or the European dd/mm/yyyy

Once you're done with the global options, simply click on the **Update Options** button to save it.

Inserting ads into your RSS feeds

Your WordPress site comes with RSS feeds ready to go. Over time, users will subscribe to your feed to receive notifications of new content on your site. A portion of those RSS subscribers may rarely visit your site, preferring instead to simply use their feed reader to read your articles. If you want to reach those users with a promotional message, you need a way to embed that message into the RSS feed. If you're using Feedburner and Google AdSense, the solution is simple, as Feedburner allows you to insert AdSense ads into your feeds. However, if you want to insert other ads or promotional messages into your feed, you will need another solution.

In this recipe we look at a plugin that allows us to insert additional information into your site's feed.

Getting ready

To execute this recipe, you will need to install the **RSS Footer** plugin. You will need to install this plugin before you can get started. Search for **Rss Footer** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://yoast.com/wordpress/rss-footer/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **RSS Footer**.
4. On the **RSS Footer options** page, seen in the following screenshot, you can input the content you want to add to the RSS feed, and position it on the screen. Type your message in the text box at the top of the page.
5. From the **Settings** combo box, select whether the message will appear above or below the feed items.

6. Click on the **Update RSS Footer Settings** button.

The screenshot shows the 'RSS Footer Configuration' page in the WordPress 3 Cookbook theme. The URL is <http://localhost:8888/wp31clean/wp-admin/options-general.php?page=rss-footer>. The left sidebar has 'RSS Footer' selected under 'Settings'. The main content area is titled 'RSS Footer options'. It contains a 'Content of your RSS Footer' section with a text area containing the placeholder text: '%POSTLINK% is a post from: WordPress 3 Cookbook'. Below this is an 'Explanation' section detailing variable placeholders like %POSTLINK%, %BLOGLINK%, and %BLOGDESCLINK%. A 'Preview of your RSS Footer' section shows the preview 'Test post is a post from: [WordPress 3 Cookbook](#)'. At the bottom is a 'Settings' section with 'Content position' set to 'before' and an explanation. A large blue 'Update RSS Footer Settings »' button is at the bottom center.

How it works...

The plugin simply adds new information to the RSS feed output.

There's more

If you are using Feedburner to manage the RSS feed for your site, you may have to take further steps to make sure the new footer message is distributed with your feed items.

First things first – after implementing the recipe, visit your Feedburner feed and see whether your RSS Footer message is appearing. If it is, then you are fine and no further steps are needed. If the content is not appearing, you will need to follow these additional steps:

1. Log in to your Feedburner account.
2. Click on the name of your site's feed.
3. Look for the **Troubleshootize** tab at the top of the page. Click on it.
4. On the page that loads, scroll down to find the button **Resynch Now**. Click on that button.

If you were successful, you should see a confirmation message in your browser. You can then check again your feed output to see if the RSS Footer message appears.

Showing your site stats to find advertisers

In this chapter, we have talked a lot about Google AdSense as a means of monetizing your website. However, another effective way to make money of your site is to directly sell the advertising space on your site.

Undertaking direct ad sales has implications for the site owner: You need to market the site, process payments, and provide an advertising management system. In this recipe, we look at the first issue and discuss how to help promote your site through the display of performance statistics.

Displaying select site performance statistics can help attract advertisers and also help shape advertiser expectations and justify pricing. The data you show should help convince the prospective advertisers that your site is an appropriate place for them to promote their products or services.

In terms of advancing the cause of advertising sales, you should display a mix of statistics that show how popular your site is, how well it ranks, and how much reach it has. As this sort of data changes over time, you don't want to hardcode it; rather you want these statistics to be current and to automatically update themselves.

This recipe covers implementing the WPStatsDashboard plugin as a means of enhancing site promotion. Display this widget on a page containing your advertising rates and information to create a page that will help prospective advertisers connect with your site.

Getting ready

The WP Stats Dashboard relies on the statistics plugin from WordPress.com. In *Chapter 1*, we looked at installing JetPack, a plugin from Automattic that incorporates the WordPress Stats functionality. Before you set up WP Stats Dashboard, you will need to have the Jetpack plugin installed and properly configured. You will also need to know your Wordpress.com username and password.

To execute this recipe, you will need to install the **WP Stats Dashboard** plugin. You will need to install this plugin before you can get started. Search for **WP Stats Dashboard** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at
<http://www.davelighhart.com/wp-stats-dashboard-10/>



How to do it...

There are two parts to this recipe. In the first part, we will configure the plugin to produce for us the stats we want to display. In the second part, we will set up and display a widget containing these statistics.

Let's start by configuring the plugin:

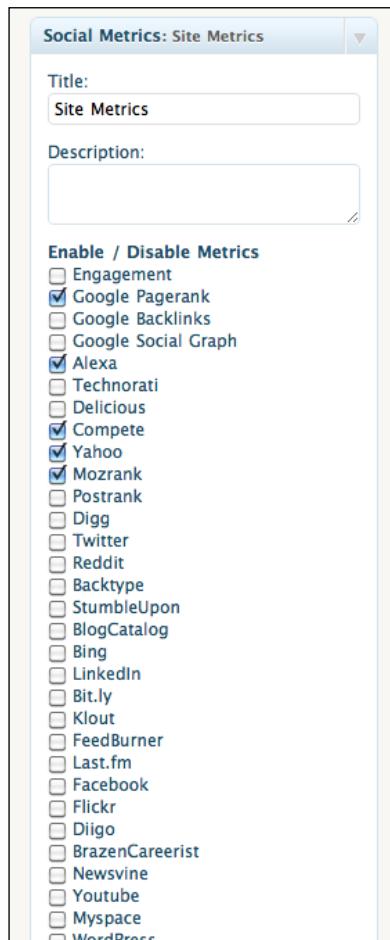
1. Log in to your WordPress **Dashboard**.
2. Click on the **WPSD** menu.

3. Click on the option **Settings**. The following screenshot shows part of this very long screen:

4. Make sure the **Blog ID** field, seen at the top of the page in the preceding image, is filled in. Normally this will happen automatically if you have properly installed and configured the WordPress Stats or Jetpack plugin.
5. Add your WordPress.com username, in the field marked **Username**.
6. Add your WordPress.com password, in the field marked **Password**.
7. Click on **Save changes**.
8. Scroll down the page to the **Profile Settings** section of the page. You can complete any of the options you want here, but for advertising sales purposes, you will probably want to make sure to complete the fields for any chapters where your site performance is particularly strong.
9. Click on the **Save Changes** button at the bottom of the **Profile Settings** section.

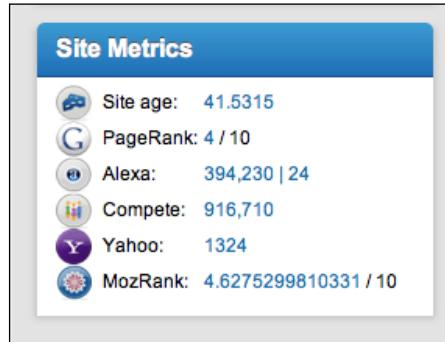
The plugin is now ready for your use. The next part of the recipe is to configure and position a widget to display select information for your advertising page. To do that, follow these steps:

1. Click on the **Appearance** menu.
2. Click on the option **Widgets**.
3. Find the **Social Metrics** widget and drag it to the widget area where you wish it to appear.
4. Click on it to open the widget for editing.
5. Give it a name, for example, **Site Statistics**.
6. Click on it to select from the list the statistics you feel show your site in the best light, as shown in the following image:



7. Click on the **Save** button.

Your site statistics are now visible on your site, as seen in the following screenshot:



For best effect, publish the widget to the page containing your pricing information and contact details.

How it works...

This plugin gathers data from multiple sources. It interfaces with the WordPress.com statistics system to pull in site traffic stats, but then also looks to third party sites for additional information, from traffic and site rank, to social bookmarking activity, to intangibles such as Klout.

There's more

This plugin also supplies a very thorough statistics dashboard for your site. You will want to explore the options for displaying admin dashboard widgets. On the WPSD configuration screen, shown on the first screenshot in this section, there are multiple options that relate to the display of the statistics inside your WordPress dashboard. To get the most out of the plugin, select the dashboard widgets you want from the list labeled **Enable / Disable Dashboard Widgets**. You will also want to select the option marked **Disable widgets on main dashboard page** in order to avoid performance problems on your main dashboard page.

Once you have made your selections, save your changes, then click on the option **Dashboard Stats**, under the **Dashboard** menu. When you click on that link, you will be taken to a dashboard similar to the one shown in the following screenshot:



Enhancing your Advertise page by adding Paypal subscriptions

If you have applied the previous recipe to your blog, you now have a stunning **Advertise** page with your site stats. That's great, but how can the advertisers pay you? You could use a contact form and ask advertisers to e-mail you and then send them your Paypal ID, but that process is slow and loaded with opportunities for the buyer to change their mind before completing the payment. A better solution would be to provide a payment option directly from your Advertise page. Even better would be setting up recurring payments so that the buyers can subscribe to your advertising service on an ongoing basis.

On this recipe we look at setting up Paypal to enable recurring or subscription payment for your site.

Getting ready

To allow Paypal subscriptions on your WordPress blog, you need a Paypal account. If you don't already have a Paypal account, just go to www.paypal.com and create one.

How to do it...

Once you have your Paypal account ready, follow these steps to create a subscription for your ads.

1. First, log in to Paypal.
2. Click on **Merchant Services**.
3. In the **Merchant Tools** page, click on the **Subscriptions & Recurring Payments** button.
4. Complete the form and specify your subscription options.
5. You need to fill in the following details:
 - Accept payments for:** Leave the default, Subscriptions and recurring billing.
 - Item name:** Give a name to the subscription, as shown in the preceding example.
 - Subscription ID:** You can leave this field blank.
 - Customize button:** Only useful if you wish to allow the advertiser to define the ads own price.

- ❑ **Currency:** The currency you'd like to display your prices in. You should choose USD, as US dollars are a de facto standard on the Internet, except if your blog is in any other language than English.
- ❑ **Recurring amount to be billed:** The sum you'd like to get each month.
- ❑ **Billing cycle:** Choose the time period for the subscription. On most blogs, 1 month is the default.
- ❑ **After how many cycles should billing stop:** You should leave the field as is, however you can decide that the subscription should be canceled automatically after X cycles.

6. Once done, click on the **Create** button. The next page will provide your custom subscription code.
7. Copy the code.
8. Log in to your WordPress **Dashboard**.
9. Open for editing the page where you have your advertising information for site visitors.
10. Paste the code where you want the payment button to appear.

Your advertisers can now automatically pay for their ads on a monthly basis.

Managing your advertising space with an ad manager

If you wish to display multiple ads on your site, or you wish to use an ad network other than Google AdSense, you may want to explore the use of an ad manager for your website. Ad management systems typically include the range of options needed to maximize the use of the advertising space on your site. The ad manager is also the key in situations where you wish to run campaigns by time, impressions, or clicks.

There are a number of options for ad management, from relatively simple systems to complete software packages you have to install independently on your server. This recipe looks at the Simple Ads Manager plugin for WordPress. It is a relatively complex plugin, but offers a fair amount of power in exchange. If you wish to sell time-based, or click-based ads, or if you wish to divide your site's pages into different zones for displaying ads, then Simple Ads Manager is a good choice for you.

Getting ready

To execute this recipe, you will need to install the **Simple Ads Manager** plugin. You will need to install this plugin before you can get started. Search for "Simple ads manager" inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://www.simplelib.com/?p=480>

In addition to the plugin, you will need the ads you want to display, or if you plan to use AdSense, the code.

How to do it...

There are several steps to this recipe. The Simple Ads Manager groups all ads inside of what the plugin calls Ad Places. The first task we need to complete is the creation of at least one Ad Place. To create your site's first Ad Place, follow these steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Ads** menu.
3. Click on the option **New Place**, or click on the button marked **Add New Place**.
4. On the **New Ads Place** screen that appears (see the following screenshot) enter a logical name for the **Ads Place** in the first field. You can also give it a **Description** if you wish.

The screenshot shows the WordPress 3 Cookbook Ad Editor interface. The left sidebar has a 'Ads' section with 'Ads Places' selected. The main area is titled 'New Ads Place' and contains several configuration sections:

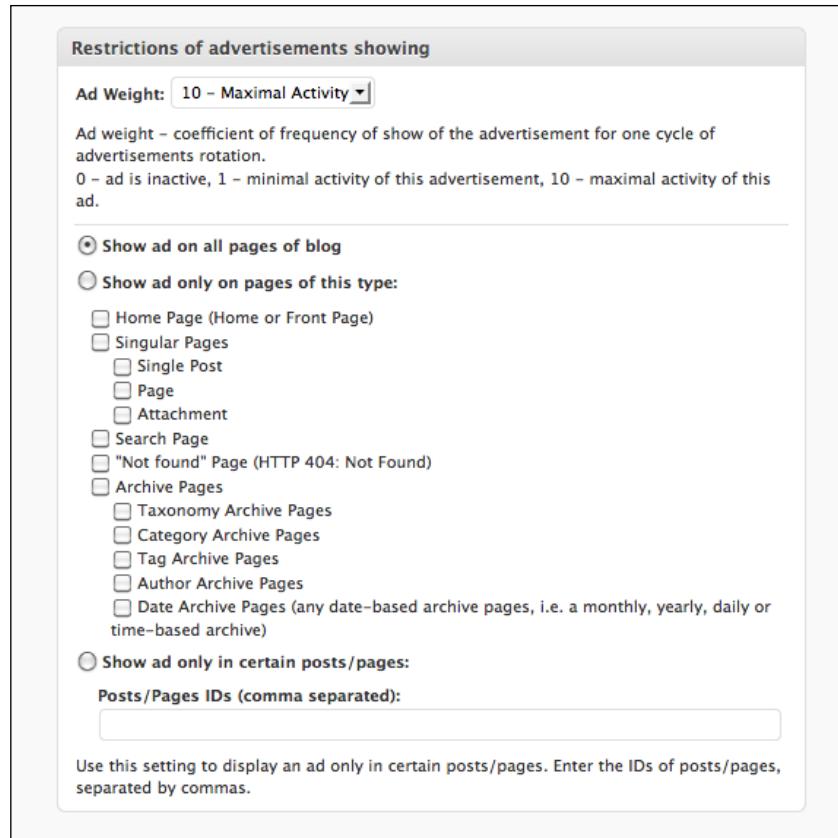
- Description:** A text area for entering a description of the ads place.
- Ads Place Size:** A dropdown menu set to '468 x 60 Banner' with fields for 'Custom Width' and 'Custom Height'.
- Ads Place Patch:** A section for selecting a patch type. It includes an 'Image' option with a file input field containing '3007-45632.png', an 'HTML or Javascript Code' option with a text area for 'Patch Code', and a 'Google DFP' option with a 'DFP Block Name' input field.
- Codes:** A section for entering code before and after the ads place.
- Status:** A sidebar panel showing 'Ads Place ID: Undefined', 'Size: Undefined', 'Width: Undefined', 'Height: Undefined', and checkboxes for 'Is Active' (checked) and 'Is In Trash'.

At the bottom, there are 'Cancel' and 'Save' buttons.

5. Next, in the section marked **Ads Place Size**, select a size for your ad, or enter a custom width and height in the fields provided.
6. In the **Ads Place Patch**, select whether this place will hold image ads, HTML / javascript ads or ads, from Google DoubleClick for Publishers (Google DFP).
7. Click on the **Save** button.

Next, you need to create at least one ad to run in your Ad Place. To create an ad, follow these steps:

1. Click on the **Ads** menu.
2. Click on the option **Ads Place**.
3. On the **Managing Ad Places** page, hover the mouse over the name of the Ad Place you wish to hold your new ad. On the options that appear, click **New Ad**.
4. The **New Advertisement** screen is where you set up the actual ad. In the first field on the page, give your ad a name. Add a **Description** if you wish.
5. In the **Ad Code** section of the page, select whether you wish to use **Image Mode** (an image ad) or **Code Mode** (an HTML or javascript ad).
6. If you selected Image Mode, upload the image you want to use. If you selected Code Mode, paste the code in the field given.
7. Next, set the display conditions for the ad in the section titled **Restrictions of advertisements showing** (see image below). Note that the section immediately below, labeled **Extended restrictions**, allows you to make even more specific conditions on the display.
8. Add **Prices**, if relevant.
9. Click on the **Save** button.



Finally, it's time to place the ads on the page. To display an ad, follow these steps:

1. Click on the **Appearance** menu.
2. Click on the **Widgets** option.
3. Grab the **Ads Place** widget and drag it to the widget area where you want the ad to appear.
4. Click on the **Ads Place** widget to open it for editing.
5. Select the name of the Ads Place you just created from the **Ads Place** combo box.
6. Click the **Save** button.

Your ad will now appear on your pages in the position you placed them.

How it works...

Ad Places are used to hold one or more individual ads. The Ad Places widget will allow you to then place the ads on the page. If you put more than one ad into an Ad Place, the ads can be set to rotate. If you need to create multiple ads in different positions, simply create multiple Ad Places.

There's more...

The plugin also provides support for Ads Zones. Zones are containers that can hold one or more Ad Places. Zones are most useful for grouping together content pages for the purpose of controlling ad display.

Creating a new Ad Zone

1. Log in to your WordPress **Dashboard**.
2. Click on the **Ads** menu.
3. Click on the **New Zone** option.
4. In the first field on the New Ads Zone page, shown in the next screenshot, give your new zone a name. Add a **description** if you wish.
5. In the **Ads Zone Settings** section, set up which Ad Places you wish to use. You can set a default Place to show where no specifics are provided, or you can vary the Places used by a variety of criteria.
6. Click on the **Save** button.
7. Click on the **Appearance** menu.
8. Click on the **Widgets** option.
9. Find the **Ads Zone** widget and drag it to the widget area where you want the ads to appear.
10. Click on the **Ads Zone** widget to open it for editing.
11. Select which Zone you want to use from the **Ads Zone** combo box.
12. Click on the **Save** button.

Adding a shopping cart to your site

If you want to sell products on your site, at the very least you will need a way for people to add those products to a shopping cart and go through a checkout process to pay for the items. In this recipe, we look at a basic e-commerce solution. The plugin covered in this recipe enables you to create an **Add to Cart** button for your products and also provides a shopping cart widget. Once the user decides to checkout, the plugin will send the users to Paypal for payment.

Getting ready

To execute this recipe, you will need to install the WP Paypal Shopping Cart plugin. You will need to install this plugin before you can get started. Search for **WP Paypal Shopping Cart** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://www.tipsandtricks-hq.com/wordpress-simple-paypal-shopping-cart-plugin-768>

How to do it...

There are three parts to this recipe. First, we need to configure the plugin. Second, we need to enable the Shopping Cart widget. Finally, we need to add the shortcode to our products.

Let's start by configuring the plugin; here's how to do it:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **WP Shopping Cart**.
4. On the page that loads, you will see a large number of configuration options. The next screenshot shows the **WP Paypal Shopping Cart Options** page. You will need to go through this page and select the options necessary for your shop, including your Paypal e-mail address, your preferred currency, whether shipping costs are involved, and so on. You can also configure the text that will appear for your cart and the **Buy now** button.
5. Once you have selected the options you wish, click the **Update Options** button.

The system is now ready to go. Let's next place the shopping cart link on the page for your site visitors. Follow these steps:

1. Click on the **Appearance** menu.
2. Click on the **Widgets** option.
3. Find the **WP Paypal Shopping Cart** widget and drag it to the widget area where you want it to appear on your site.

The final step is to place the appropriate code on your product page to enable the purchase. Follow these steps:

1. Go to the page where you want the product with the checkout option to appear.
2. Click and open the page (or post) for editing.
3. Click on the **HTML** tab to switch to the HTML editor.
4. Where you want the **Add to Cart** button to appear, paste the following code into the text: `[wp_cart :PRODUCT-NAME:price:PRODUCT-PRICE:end]`. Replace **PRODUCT-NAME** with the name of your product and **PRODUCT-PRICE** with the price of the product, for example, `[wp_cart :WordPress Book:price:29.95:end]`.
5. Click to update the page.

That's all there is to it. You can use the plugin to create **Add to Cart** buttons for as many unique products as you like. All products will add to the shopping cart. Users will be able to remove things from the cart or add new items before checking out.

The screenshot shows the WordPress 3 Cookbook dashboard with the "WP PayPal Shopping Cart Options" page open. The left sidebar includes links for Dashboard, Posts, Media, Links, Pages, Comments, Appearance, Plugins, Users, Tools, and Settings. Under Settings, "WP Shopping Cart" is selected. The main content area displays the "Simple PayPal Shopping Cart Settings v 3.1" page. It contains instructions for adding the "Add to Cart" button and the shortcode [show_wp_shopping_cart]. A large central form titled "PayPal and Shopping Cart Settings" contains various configuration options:

- Paypal Email Address:** A text input field.
- Shopping Cart title:** A text input field set to "Your Shopping Cart".
- Text/Image to Show When Cart Empty:** A text input field containing "Your cart is empty". A note below says "You can either enter plain text or the URL of an image that you want to show when the shopping cart is empty".
- Currency:** A dropdown menu set to "USD" with a note "(e.g. USD, EUR, GBP, AUD)".
- Currency Symbol:** A dropdown menu set to "\$" with a note "(e.g. \$, £, €)".
- Base Shipping Cost:** A text input field set to "0". A note below says "This is the base shipping cost that will be added to the total of individual products shipping cost. Put 0 if you do not want to charge shipping cost or use base shipping cost. [Learn More on Shipping Calculation](#)".
- Free Shipping For Orders Over:** A text input field with a note "When a customer orders more than this amount he/she will get free shipping. Leave empty if you do not want to use it."
- Must Collect Shipping Address on PayPal:** A checkbox.
- Use PayPal Profile Based Shipping:** A checkbox.
- Add to Cart button text or Image:** A text input field containing "Add to Cart". A note below says "To use a customized image as the button simply enter the URL of the image file. e.g. http://www.your-domain.com/wp-content/plugins/wordpress-paypal-shopping-cart/images/buy_now_button.png".
- Return URL:** A text input field set to "http://localhost:8888/wp31clean". A note below says "This is the URL the customer will be redirected to after a successful payment".
- Products Page URL:** A text input field with a note "This is the URL of your products page if you have any. If used, the shopping cart widget will display a link to this page when cart is empty".
- Automatic redirection to checkout page:** A checkbox.
- Reset Cart After Redirection to Return Page:** A checkbox.
- Hide Shopping Cart Image:** A checkbox.
- Use WP Affiliate Platform:** A checkbox.

At the bottom of the page, there is a "Update Options »" button, a "Like the Simple WordPress Shopping Cart Plugin? Give it a good rating" link, and footer links for "Thank you for creating with WordPress | Documentation | Feedback" and "Version 3.1.4".

How it works...

This plugin does not create a product catalog, nor does it manage the display of products; it simply enables an "add to cart" button and provides the users with a shopping cart interface that enables payment via Paypal. If you want to style your product display, you will need to lay it out inside a content item and style it to suit your needs.

When a plugin is installed, it adds a new shortcode functionality to your site. The configuration options you set are used to provide the basic information that is used both in the shopping cart display and in the transaction data to Paypal.

The shopping cart contains most of the critical user interfaces and interfaces with the Paypal system for getting the payment information to that system.

There's more...

The shopping cart is available both as a widget, and as a shortcode that can be added into a content item. If you prefer to use the shortcode to place the shopping cart, simply add the code [show_wp_shopping_cart] to your content item.

7

Making an SEO Friendly Site

In this chapter you will learn:

- ▶ Making your site visible to search engines
- ▶ Optimizing your permalinks for SEO
- ▶ Migrating your permalinks safely
- ▶ Adding redirects for changed URLs
- ▶ Creating meta descriptions for your posts and pages
- ▶ Avoiding duplicate content with a robots.txt file
- ▶ Pinging third party services
- ▶ Enhancing site indexing with XML sitemaps
- ▶ Using Google's and Bing's Webmaster tools
- ▶ Improving SEO with the SEO Ultimate plugin

Introduction

Building a great site is one thing, getting people to visit it is another thing entirely. From a marketing perspective, making your site search engine friendly is essential to your success in driving traffic to the site.

Search engine optimization, or SEO, as it is commonly known, is more of an art than a science. Though the experts are unlikely to agree to one specific approach that is key to your SEO success, there are a number of techniques that are widely recognized as effective in helping you to achieve your goals.

Making an SEO Friendly Site

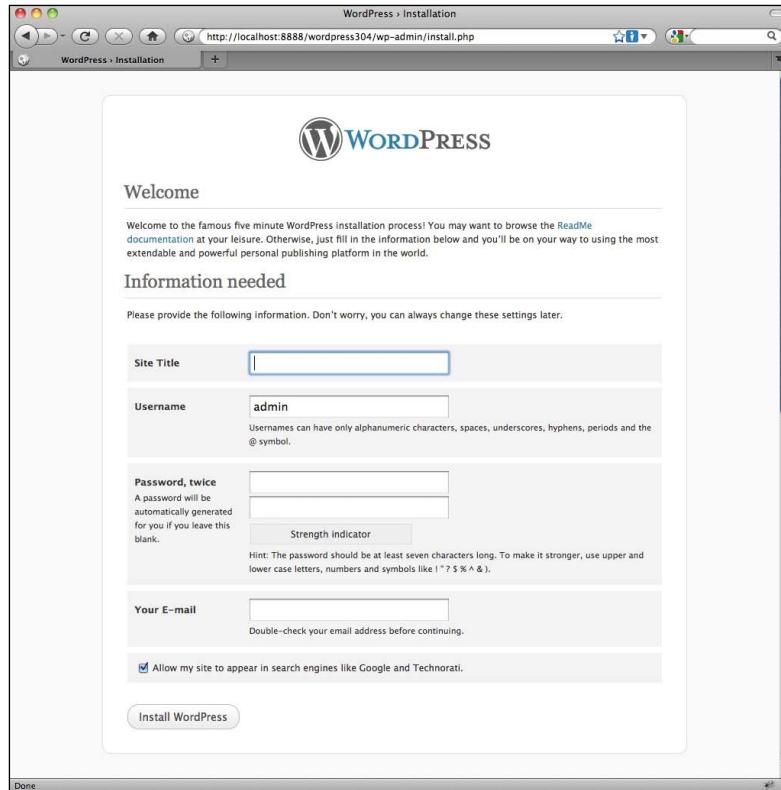
In this chapter, we look at some of the most effective tools and techniques for making your WordPress site more search engine friendly. Topics covered include how to create search engine friendly URLs, how to enhance your metadata, how to avoid duplicate content penalties, and how to register with third-party services that can help boost your search engine visibility.

Effective search engine marketing requires planning, coordination, and a dedication to consistent effort over time. There are no fast fixes. You should consider the recipes in this chapter as a good starting point, not a definitive final solution.

Making your site visible to search engines

You have to set your WordPress configuration to allow the search engines to index the site. If you do not allow the site to be visible to the search engines, then your site's pages will not be included in the search engine indexes and consequently, will not appear in the search results.

During the installation process, the WordPress installer prompts you to make a decision whether to make the site visible to the search engines. In the following screenshot you can see where this appears in the installer:



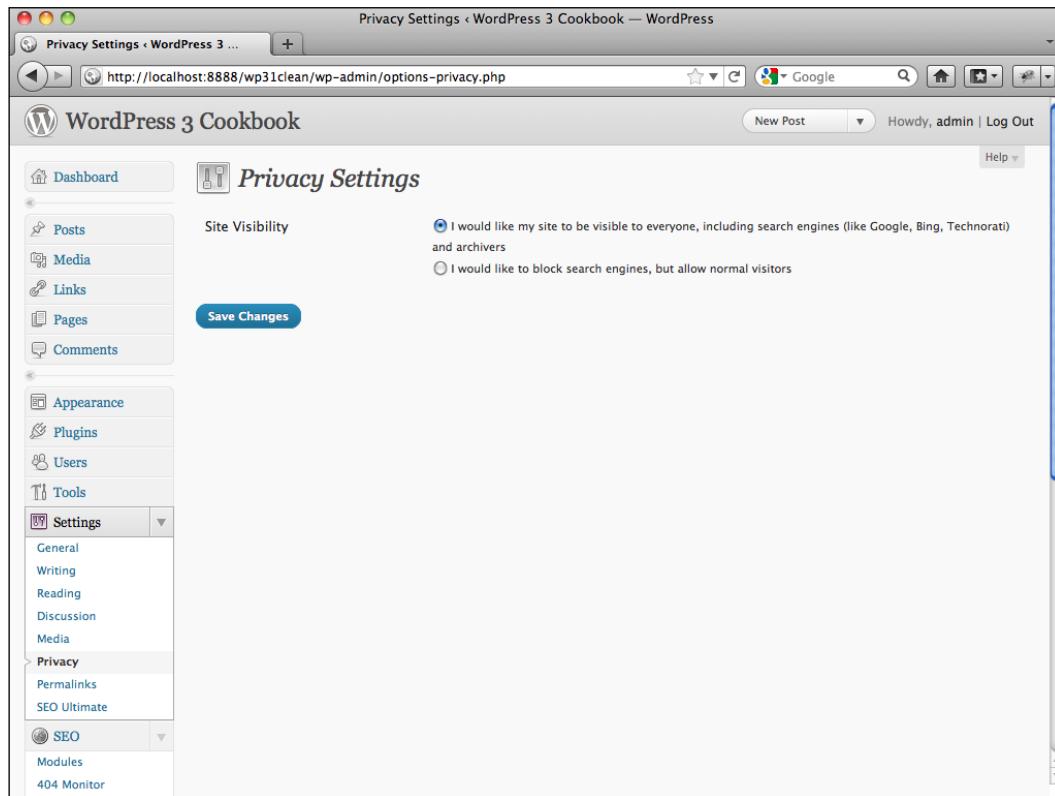
However, regardless of the setting you selected during installation, you can adjust this after the site is installed. In this recipe, we show you how to change this setting.

Getting ready

Nothing extra is needed to cook up this recipe; everything is done from within the WordPress dashboard.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Go to **Settings**.
3. Select the option **Privacy**, as shown in the following screenshot:



4. Select the option **I would like my site to be visible to everyone, including search engines (like Google, Bing, Technorati) and archivers**.
5. Click on **Save Changes**.

Optimizing your permalinks for SEO

One of the most influential factors in search engine optimization is the content of your site's URLs. If a URL contains real words relevant to your content and target keyphrases, you are more likely to find that page in the search results.

The process of getting search engine friendly (and human friendly!) URLs is known as **URL rewriting**. By default, WordPress URLs aren't rewritten so as to avoid compatibility problems with non-Apache servers. A raw, unprocessed URL might look like this:

`http://www.mysite.com/index.php?page=start&access=1&category=25`

The same URL, after rewriting to improve readability and search engine effectiveness, might look like this:

`http://www.mysite.com/about-us/company-information`

As you can see, the second URL is a lot more readable and contains appropriate keywords that might help someone find the page. With this rewritten URL, a reader, as well as a search engine crawler, has some idea of the page's content.

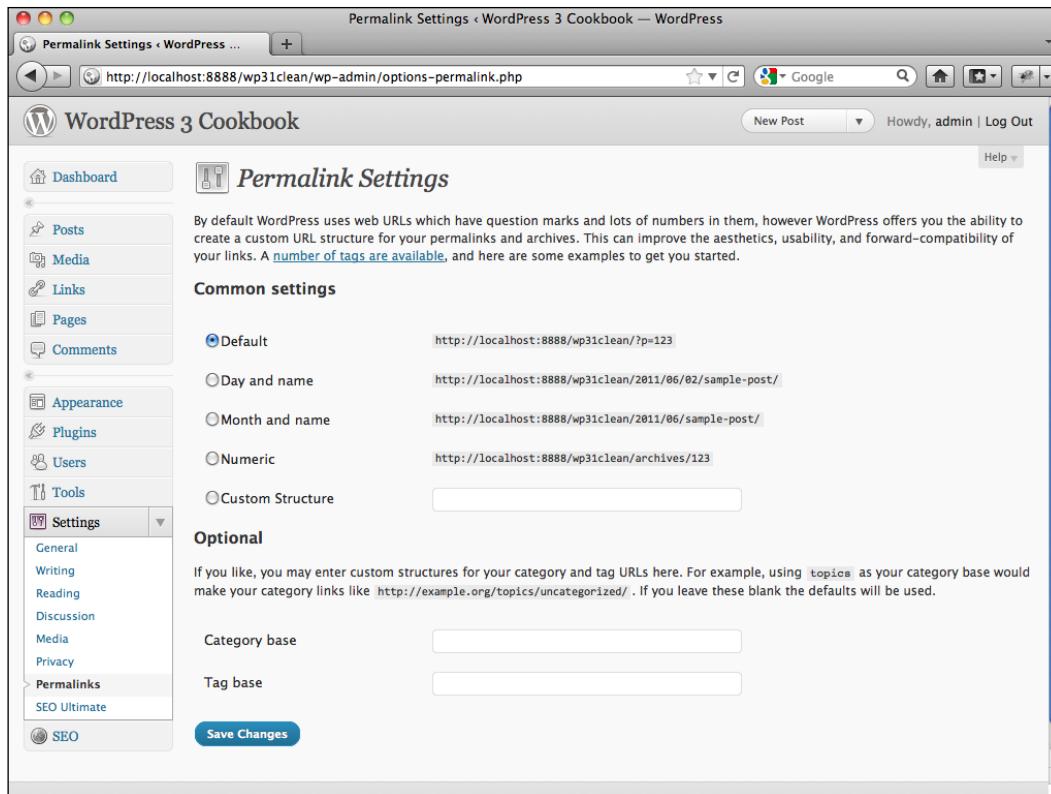
In this recipe, we show you how to implement search engine friendly URLs or, as WordPress calls them, permalinks.

Getting ready

Nothing extra is needed to cook up this recipe; everything is done from within the WordPress dashboard.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Go to **Settings**.
3. Click on the option **Permalinks**.
4. Select the permalink structure you'd like to use, or enter a custom structure.
5. Click on **Save Changes**.
6. As you can see in the following image, WordPress offers the default structure and three others predefined options:



Which permalink structure is the best? There are many online discussions about which permalink structure is the best. There is no dispositive answer to this question. While putting your keyphrases into your URLs is desirable, you must exercise a bit of restraint. Too much crammed into your URLs looks unnatural, creates clumsy URLs that are hard for people to work with, and runs the risk of being labeled deceptive by the search engines.

How it works...

The permalinks functionality relies upon the Apache mod_rewrite. The module works by transforming a URL with GET parameters to a human-readable URL. The exact structure used is dictated by the options you select on the Permalinks Settings screen.

There's more...

Now that you know how to define permalinks in your WordPress blog, let's have a look at creating custom structures for your URLs. You can also define a custom URL structure and enter it in the **Custom Structure** text field. To define a custom structure, you must enter structure tags in the Custom Structure text field. Separate each structure tag with a separator character.

Two things to keep in mind: First, never put the site URL in the custom structure fields. Second, always end with either `%post_id%` or `%postname%` to make sure the URL points to a single unique page.

Structure tags reference

WordPress gives you 10 structure tags that can be used to personalize your permalink structure. They are:

- ▶ `%author%`: The post author
- ▶ `%category%`: The post category
- ▶ `%day%`: The day the post was published, for example 03 for the third day of the month
- ▶ `%hour%`: The hour the post was published
- ▶ `%minute%`: The minute the post was published
- ▶ `%monthnum%`: The month the post was published, for example 01 for January
- ▶ `%post_id%`: The post ID, for example, 735
- ▶ `%postname%`: The name of the post
- ▶ `%second%`: The second the post was published
- ▶ `%tag%`: The tag slug field
- ▶ `%year%`: The year the post was published, for example, 2011

Structure tags can be mixed up together to create a personalized structure. Don't forget to use a separator between structure tags.

The following are the recommended separators:

- ▶ the slash (/)
- ▶ the underscore (_)
- ▶ the hyphen (-)

Further optimizing your permalinks

When you're writing a post or page, WordPress allows you to edit the permalink for the current article. You can use this tool to improve keyword density as well as for getting rid of unnecessary words in your permalinks.

For example, if you have written a post entitled "Introducing my first WordPress theme", the default permalink will be something like this:

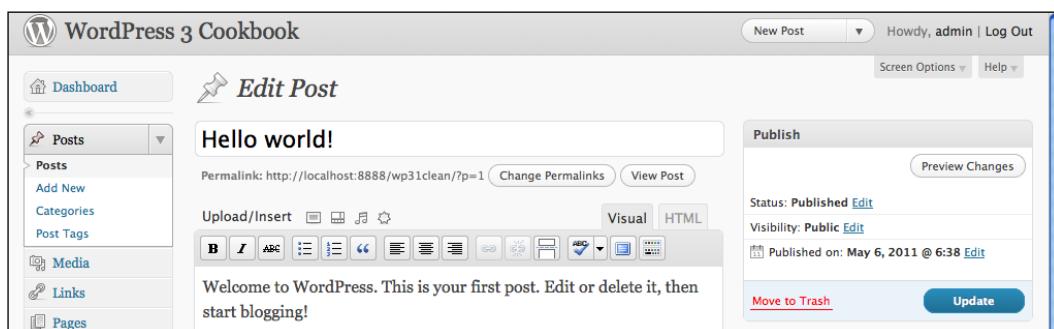
```
/introducing-my-first-wordpress-theme
```

This permalink is bad because it contains unnecessary words, and not enough keywords. Think about the keywords people will search for on Google. A much better permalink would be:

```
/free-wordpress-theme-yourthemename
```

This way, you ensure that people will be able to find your post on search engines while searching for your theme. Adding the "free" keyword is also important because many people will look for a **free** WordPress theme.

To do this, open the post for editing, then click on the **Edit** link under the post title as shown in the following screenshot. After you click on the **Edit** link, the permalink will become editable.



Another use of the URL editing feature is to rid of words which aren't needed in your URL. For example, if you wrote a post entitled "Creating user-defined RSS feeds in your WordPress site", then the permalink created by WordPress would be something like this:

```
/creating-user-defined-rss-feeds-in-your-wordpress-site
```

In this permalink a few words such as "in" or "your" aren't necessary at all. Some others can be removed as well to keep your URL short and concise.

To continue with the previous example, you could edit the URL to create a tighter structure, such as:

creating-user-defined-rss-feeds-wordpress

Once done, click on the **Update** button and your changes will be recorded.

Migrating your permalinks safely

WordPress gives you the ability to modify your permalinks structure at any time. Generally, this is not a good idea as it can cause problems with inbound links from other sites and with your users' bookmarks. It is not, however, a complete disaster; if you decide that you must modify your permalinks, WordPress will help you avoid a site full of 404 errors.

Getting ready

You don't need anything special to whip up this recipe; WordPress does all the work!

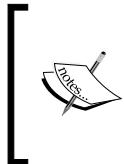
How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Access the permalinks settings by clicking on the option **Permalinks**.
4. Make whatever changes you want to the permalinks settings.
5. Click on **Save Changes**.

That's it, you're done. Your permalinks have been modified, but should not suffer any loss of traffic due to broken links on other websites and search engines, results pages.

How it works...

The WordPress core does the work in this recipe. The system is designed to help avoid problems when users change their permalinks structures. When you change the structure, WordPress will automatically direct traffic that comes from the old link to the proper page.



If you are used to working with older versions of WordPress, then you will be pleased to learn that changing permalinks is no longer a recipe for problems. While, in the past, changing permalinks required a third party plugin, or a lot of work with .htaccess, it can now all be done with just the WordPress core.

Adding redirects for changed URLs

Sometimes you need to edit the URL for a specific page or post. In that situation, you run a risk of breaking links to the original page. This recipe will show you how to avoid this problem, using the Permalink Finder plugin.

Getting ready

To execute this recipe, you will need to install the Permalinks Finder plugin. You will need to install this plugin before you can get started. Search for **Permalinks Finder** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://www.blogseye.com/i-make-plugins/ permalink-finder/>



How to do it...

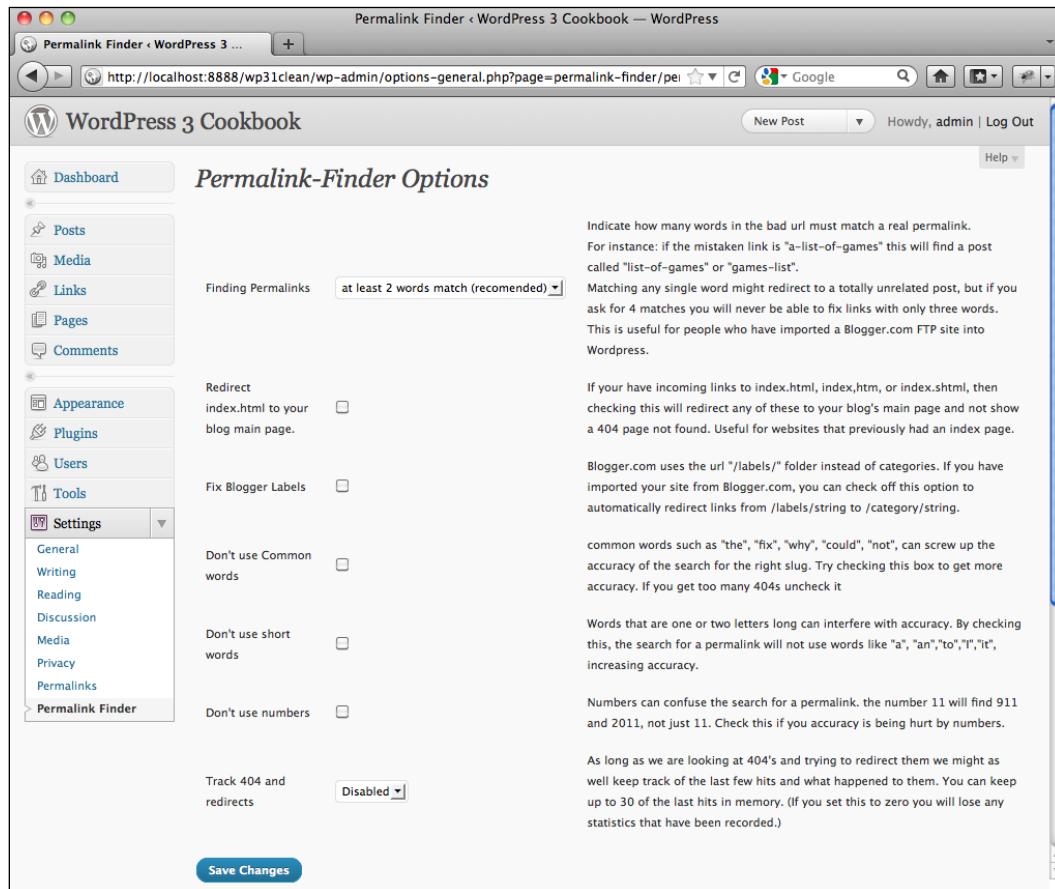
1. Click on the **Settings** menu.
2. On the **Settings** menu, click on the option **Permalink Finder**.
3. Select **Don't use Common words**.
4. Select **Don't use short words**.
5. Select **Don't use numbers**.
6. Click on **Save Changes**.

How it works...

The Permalinks Finder plugin works by detecting a request for an invalid URL, then trying to match that to an existing page. Once it finds the proper page, it will send the user to the right page. Additionally, the plugin sends a 301 redirect to help inform search engines and spiders that the link has changed.

There's more...

The Permalink Finder plugin is also very useful to you if you have migrated an existing website to WordPress. By installing and activating the plugin, you can prevent loss of traffic to both internal pages and the home page of your new WordPress site. The plugin also includes a specific option intended to help those that are migrating from Blogger to WordPress, as you can see in the following screenshot:



Creating meta descriptions for your posts and pages

By default, WordPress doesn't add the meta description tag to the posts you write. While meta descriptions aren't as important as they used to be in SEO, they are always a plus for both your visitors and search engine bots. You do want to include these.

In this recipe we look at several solutions for providing your site with a meta description field. In the first part of this recipe, we look at two options for creating static (unchanging) descriptions. In the latter part of the recipe we look at a more advanced solution that lets you edit the description for individual posts.

Getting ready

To complete this recipe, you will need access to your WordPress installation on your server and you will also need a text editor. To create the more advanced solution, discussed in the There's more section, you will need to install the SEO Ultimate plugin, discussed later in this chapter.

How to do it...

Let's start by looking at two static solutions, that is, solutions that set a static description that will be applied across all pages. In the first option, you are simply adding a line of code to your theme that specifies the meta description tag's content throughout the site. In the second option, we simply use the text input for the Tagline in the General Settings in the administration system of your WordPress installation. Using the latter method, if you wish to change the meta description for the site, you can do so by simply editing the Tagline value inside the dashboard.

1. Access the files for your WordPress installation on your server.
2. Open header.php for editing – use the file inside your active theme.
3. If you wish to add a standardized meta description for use on all pages, you can do so by adding the following code somewhere inside the <head> of the file:

```
<meta name="description" content="the description you wish to  
use will go here, inside the quotations" />
```
4. If you wish to use the site's description, which is editable from within the admin system, use this code instead:

```
<meta name="description" content="php<br/ bloginfo('description'); ?>" />
```
5. Save the header.php file.

Meta descriptions are now displayed in the head of your WordPress posts and pages.

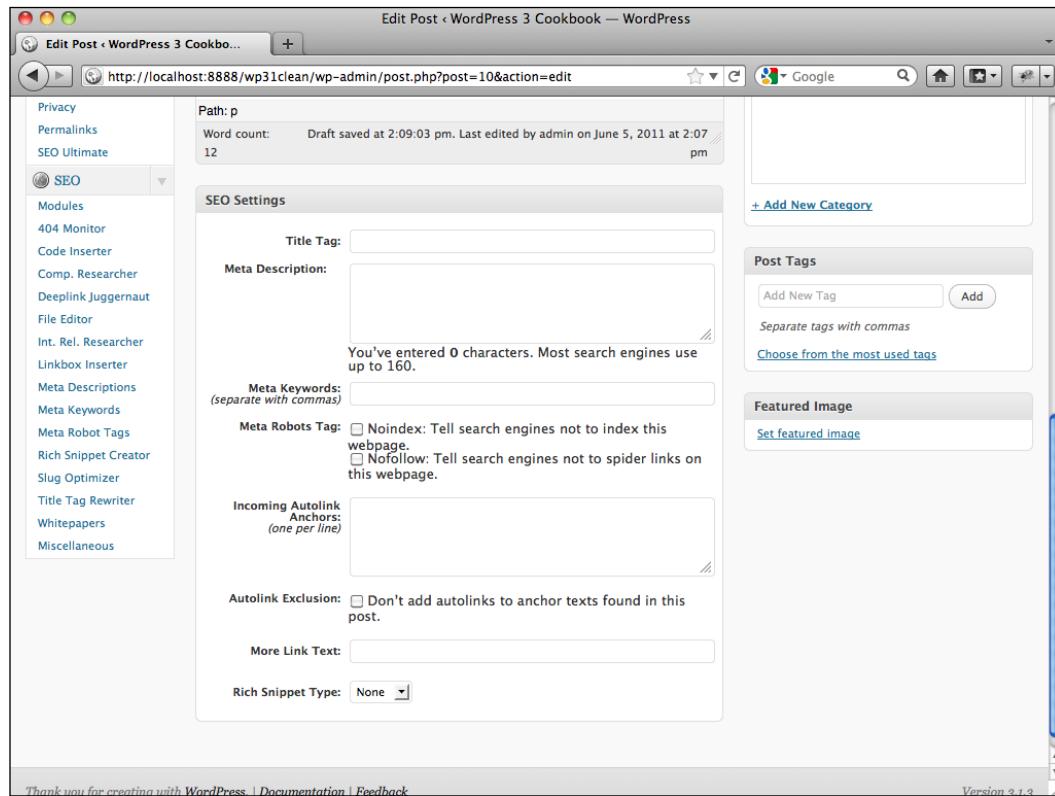
How it works...

In the first example, the value for the meta description tag is simply hard coded. In the second example, the value input by the administrator for the site's tagline is automatically printed on the page as the value for the meta description field.

There's more...

While the preceding code is good, it is very limited. It is not ideal to have the same meta description value for all your pages; it would be better if you could control the description on individual pages so that the description tag can be tailored to match the contents of the page.

To achieve a more flexible solution, install the SEO Ultimate plugin, discussed later in this chapter. Once the plugin is installed and activated, each of the posts on your site will now have a new **SEO Settings** section, as shown in the following screenshot:



The fields include not only a meta description option, but also a title tag and other options.

See also

- ▶ *Improving SEO with the SEO Ultimate plugin*

Avoiding duplicate content with a robots.txt file

To avoid being penalized for duplicate content on your site, you can use a simple file tailored to that task. This useful file is a basic text file, named `robots.txt` and it is located at the root of your WordPress blog. The file is used to tell the search engines crawlers that they don't have to follow or index some pages or directories.

Getting ready

To implement this recipe you will need a text editor and access to the server where your WordPress site is installed.

How to do it...

1. Create a new blank file on your computer. Name it `robots.txt`.
2. Copy and paste the following code in the `robots.txt` file:

```
User-agent: *
Disallow: /wp-
Disallow: /search
Disallow: /feed
Disallow: /comments/feed
Disallow: /feed/$
Disallow: /*/feed/$
Disallow: /*/feed/rss/$
Disallow: /*/*/trackback/$
Disallow: /*/*/*/feed/$
Disallow: /*/*/*/*/feed/rss/$
Disallow: /*/*/*/*/trackback/$
```

3. Save the file.
4. Upload it to your WordPress site root.



Obviously this recipe assumes you don't already have a `robots.txt` file on your site. If you do, edit that file, rather than overwriting it completely with a new one!



How it works...

This `robots.txt` file prevents duplicate content by telling all search engines crawlers not to index search results, feeds, trackbacks URLs, as well as `wp-*` directories.

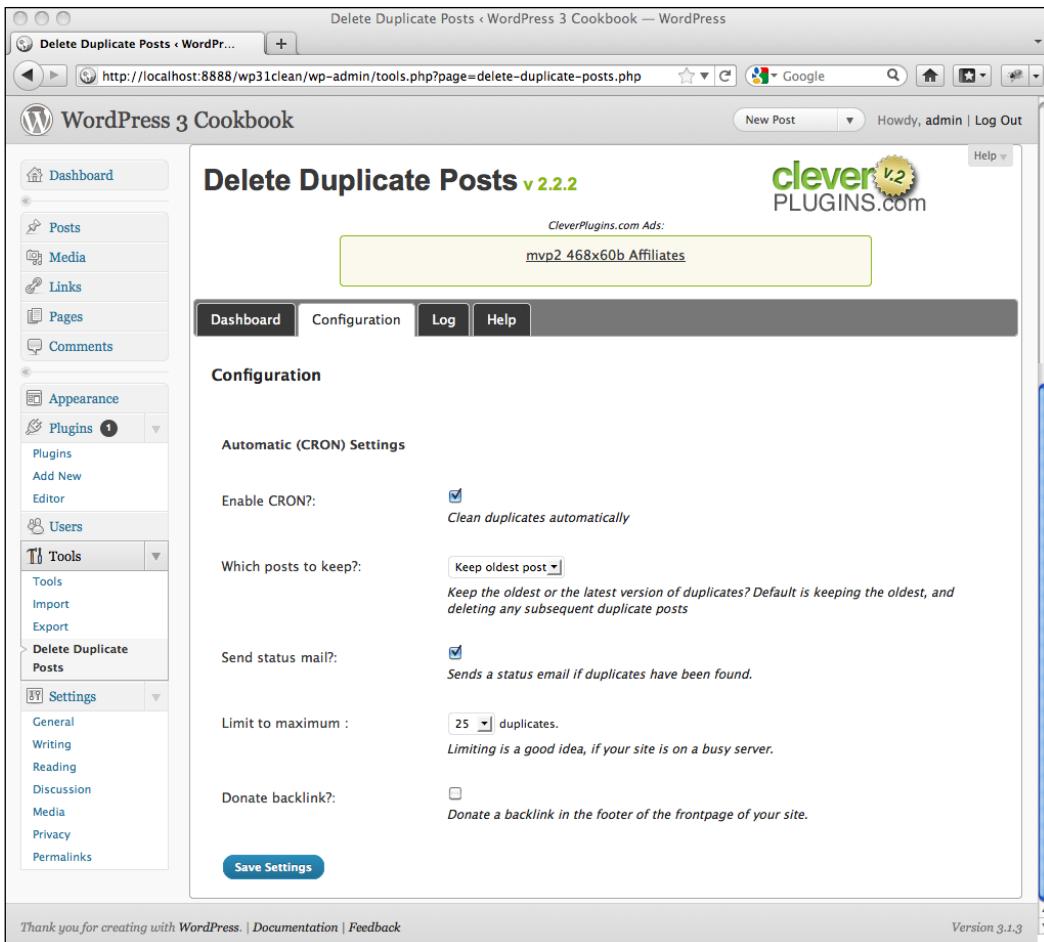
There's more...

The `robots.txt` file is the most common technique used to avoid duplicate content on web sites. Though, as you can guess, this isn't the only way to protect your WordPress blog from search engine optimization problems caused by duplicate content.

A plugin to remove duplicate content

While the `robots.txt` recipe above is effective at preventing the double indexing of the content on your site, there are other ways that your site may find itself with duplicate content. If you have saved multiple copies of the same post or page during editing, or if you are using a scraper or RSS aggregator, it is possible that multiple copies of the same post may wind up in your site; if those circumstances arise, the `robots.txt` fix outlined above will not solve the problem.

The solution is either to diligently monitor your site, or install an automated tool to watch it for you. The **Delete Duplicate Posts** plugin is one solution. The plugin will monitor your site each cron run, search for duplicate content, then eliminate the duplicates. The settings for the plugin, as shown in the following screenshot, allow you to set automatic or manual cleaning, determine the deletion criteria, and even set up e-mail notifications when duplicate posts are found:



Pinging third-party services

If you're interested in SEO, then you are interested in getting more visitors. A good way to bring new readers is to ping third-party services.

In this recipe, we're looking at third-party services, such as Technorati or Google blog search. These services publish links to popular posts and allow visitors to search among blogs.

Pinging is simply the act of notifying these services that new content is available on your site. After you have successfully pinged for example, Technorati, a crawler from that site will visit your site and index your newest content, making it available to their visitors.

Getting ready

To ping a website, you have to get the trackback URL. For example, Technorati trackback URL is <http://rpc.technorati.com/rpc/ping>.



Finding trackback or ping URLs isn't always easy as most websites just display a link on their footer, or even worse, on a specific page. Often the quickest way to find the ping URL is to run a Google search. To perform this search quickly and accurately, use the following specific syntax:

`site:technorati.com ping url`

How to do it...

Once you have the ping URLs of the websites you'd like to notify about your new content, you have to configure WordPress so that it will automatically ping the selected website when you write new posts or pages.

To do so, follow this short procedure:

1. Log in to your WordPress **Dashboard**.
2. Go to **Settings**.
3. Click on **Writing**.
4. Scroll down to the bottom of the page. You'll see the **Update Services** paragraph, which includes a text area in which you can specify one or more URLs you'd like to ping.
5. Paste your ping URLs in the text area. Make sure to write each URL on a new line.
6. Save your URLs by clicking on the **Save Changes** button.

That's all it takes. The next time you publish a new post, your WordPress system will automatically ping the sites and notify them of the new content.

How it works...

To notify other websites about the changes that you made in yours, WordPress uses the **RPC (Remote Procedure Call)** technology that consists of an inter-process communication technology to send a signal to another web site. When a web site (one that accepts pings) receives a ping, it automatically executes a bunch of functions. For example, it can tell a crawler to visit and index the site which has pinged it, or it can post a comment to the blog. This is exactly how trackbacks or pingbacks work.



The WordPress Codex includes a list of recommended Ping URLs and related services. Visit http://codex.wordpress.org/Update_Services

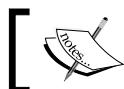


Enhancing site indexing with XML sitemaps

While it is one thing to create a website and build pages of content, it is another thing entirely to make sure that all of those pages are indexed by the search engines. The simple act of creating a web page does not assure that it will be indexed. While the search engines today are much better at detecting and indexing new content, it is best to provide them with some guidance and to help assure that all the pages are indexed in a timely fashion. The best way to guarantee that the search engine crawlers can see and index all of your site pages is to use an XML sitemap.

According to sitemaps.org, "sitemaps are an easy way for webmasters to inform search engines about pages on their sites that are available for crawling. In its simplest form, a sitemap is an XML file that lists URLs for a site along with additional metadata about each URL (when it was last updated, how often it usually changes, and how important it is, relative to other URLs in the site) so that search engines can more intelligently crawl the site."

In other words, although using a sitemap doesn't guarantee that absolutely all your pages will be indexed by search engines, it does give crawlers some information to do a better job. All three of the major search engines follow the XML sitemaps protocol and, as you will see in a later recipe, Google and Bing provide services to help you monitor the effectiveness of the sitemaps.



Google and Bing Webmaster services are discussed in the next recipe in this chapter.



Sitemaps can be created manually, but that approach requires you to update the sitemap file after each new post or page is published. The better course is to use a third-party plugin that's purpose-built for managing your XML sitemaps. In this recipe, we look at implementing the **XML Sitemap Generator** for WordPress. At the end of this recipe, you will have an XML sitemap that automatically updates to reflect your content changes and notifies the search engines that there are new pages to index.

Getting ready

XML Sitemap Generator is a third-party plugin. Accordingly, you must first install and enable this plugin on your WordPress site. Search for **XML Sitemap Generator** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about this plugin by visiting the developer's site at <http://www.arnebrachhold.de/projects/wordpress-plugins/google-xml-sitemaps-generator/>



How to do it...

1. Log in to your WordPress **Dashboard**.
2. Go to the **Settings** tab.
3. Click on the option **XML-Sitemap**.
4. On the **XML Sitemap Generator Settings** page you can select from multiple options, as shown in the next screenshot. The default settings will be fine for most sites.

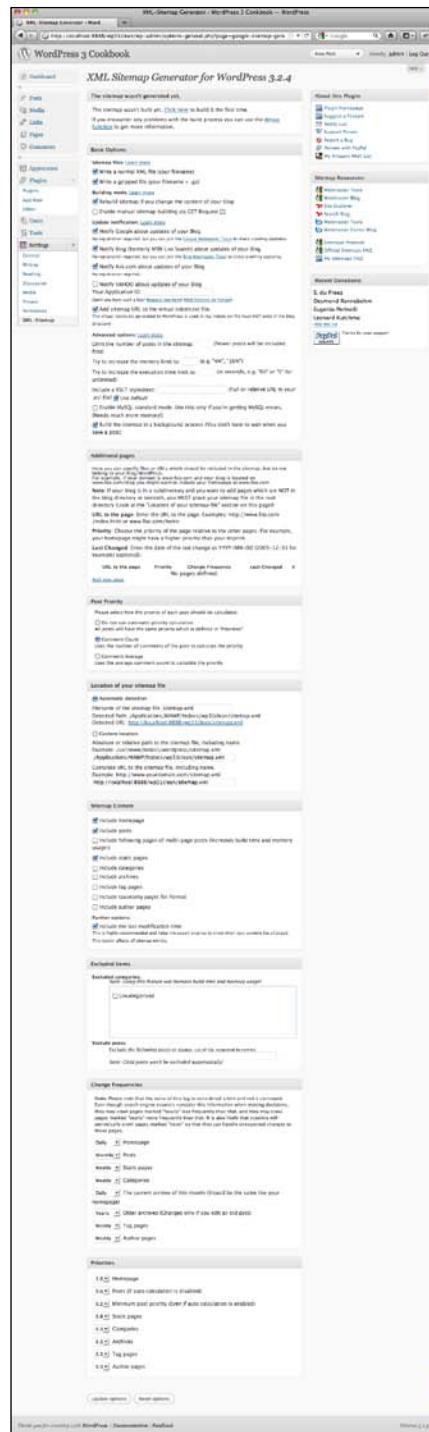


Note: If you are using a dedicated `robots.txt` file, such as the one recommended earlier in this chapter, de-select the option **Add sitemap URL to the virtual robots.txt file**.



5. After you have made your selections, click on the **Update options** button.

If you want to check the result, simply open a browser and visit `http://www.yoursite.com/sitemap.xml` and you should be able to see your new sitemap. If the output is not what you expected, repeat the steps above to adjust the settings.



How it works...

A sitemap is, as an RSS feed, a good old XML file, encoded in UTF-8. Here's an example of a sitemap:

```
<?xml version="1.0" encoding="UTF-8"?>
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
  <url>
    <loc>http://www.example.com/</loc>
    <lastmod>2005-01-01</lastmod>
    <changefreq>monthly</changefreq>
    <priority>0.8</priority>
  </url>
  <url>
    <loc>http://www.example.com/catalog?item=73&desc=
      vacation_new_zealand</loc>
    <lastmod>2004-12-23</lastmod>
    <changefreq>weekly</changefreq>
  </url>
  <url>
    <loc>http://www.example.com/catalog?item=74&desc=
      vacation_newfoundland</loc>
    <lastmod>2004-12-23T18:00:15+00:00</lastmod>
    <priority>0.3</priority>
  </url>
  <url>
    <loc>http://www.example.com/catalog?item=83&desc=
      vacation_usa</loc>
    <lastmod>2004-11-23</lastmod>
  </url>
</urlset>
```

Let's have a look at the different attributes of this standard sitemap:

- ▶ **urlset:** Reference the sitemap protocol (required)
- ▶ **urn:** This is the parent tag for each URL of your site (required)
- ▶ **loc:** The URL of the page; must start with `http://` (required)
- ▶ **lastmod:** The date of the last modification on the page; format must be `YYYY-MM-DD` (optional)
- ▶ **changefreq:** How frequently the content of the page is updated; values can be `always`, `hourly`, `daily`, `weekly`, `monthly`, `yearly`, or `never` (optional)
- ▶ **priority:** The importance of this URL relative to other URLs from your site; values range from 0.0 to 1.0 and the default priority is 0.5 (optional)

If you decide to create your own, you will need to follow a few important rules:

- ▶ Sitemaps must have an `.xml` extension.
- ▶ Sitemaps must be encoded using UTF-8.
- ▶ All data in a sitemap must be entity-escaped. For example, you can't include the less than character (`<`). You have to use the related escaped entity, which is `<`.
- ▶ A sitemap must always begin with the `<urlset>` tag, and close with the corresponding closing `</urlset>` tag.
- ▶ `<url>` and `<loc>` tags are mandatory.

See also

- ▶ *Using Google's and Bing's Webmaster Tools*

Using Google's and Bing's Webmaster Tools

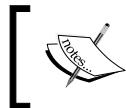
Now that you have created an XML sitemap, you should also consider taking advantage of two services maintained by Google and Bing. Both services have similar names and provide similar functionality: Google Webmaster Central and Bing Webmaster Tools.

These popular services provide a place for website owners to gain insight into how their websites are performing on the search engines. Both systems provide a set of tools and reports that allow you to see how your site is ranked and what you can do to enhance it.

Both systems require you to first verify your site. While you can verify manually, by adding a file to your server, or a tag to your page code, in this recipe we explore an easy-to-use plugin that can make verification easier. The plugin is called the All in One Webmaster and it handles Google, Bing, and a number of other services as well.

Getting ready

All in One Webmaster is a third-party plugin. Accordingly, you must first install and enable this plugin on your WordPress site. Search for **All in One Webmaster** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about this plugin by visiting the developer's site at
<http://arpitshah.com/post/10117563852/all-in-one-webmaster>

Next, if you have not done so already, register with Google and with Bing to gain access to their webmaster tools. You will need to have access to these services to complete this recipe.

How to do it...

Let's start with Google Webmaster Central:

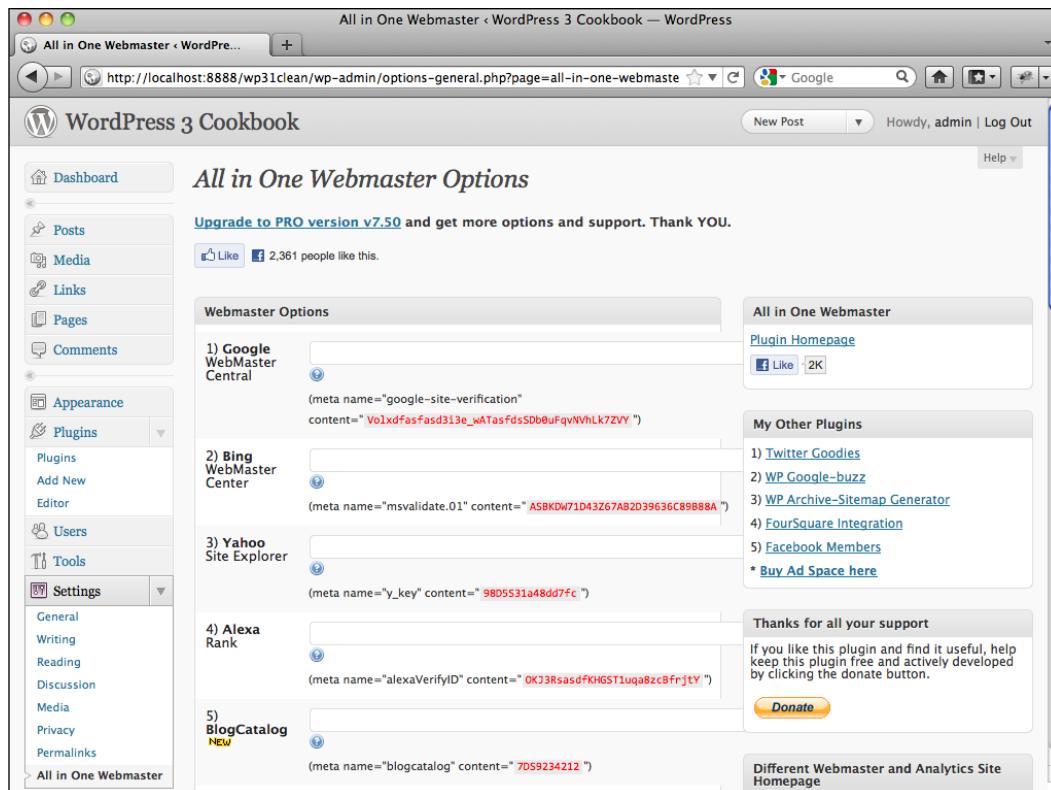
1. Log in to Google Webmaster Central by visiting <https://www.google.com/webmasters>
2. Click on the button labeled **Add a site**.
3. In the popup that appears, add your site's URL and then click on **Continue**.
4. You must next verify your site. Google will give you a choice of verification methods, but for this recipe we're using the **All in One Webmaster** plugin, so click on the **Alternate methods** tab on the **Verify ownership** screen.
5. Click on the option **Add a meta tag** to your site's home page.
6. Find the verification number in the code that is shown – it will look something like this: **f51uBC2isisNfm22KeaS7PGWHmqYn66BezUSTCCfiM**.
7. Copy the number and leave the Google Webmaster Central page open in your browser while you perform the next steps.
8. Log in to your WordPress admin dashboard.
9. Click on the **Settings** menu.
10. Click on the option **All in One Webmaster**.
11. On the screen that loads, paste the Google verification code into the blank field labeled **Google WebMaster Central**, as you can see in the screenshot below.
12. Click on **Update options**.
13. Return to Google Webmaster Central, and click on the **Verify** button.

If you were successful, you will see a confirmation message.

Next, let's set up Bing's Webmaster Tools:

1. Log in to Google Webmaster Central by visiting <http://www.bing.com/toolbox/webmasters/>
2. Click on the button labeled **Add site**.
3. In the popup that appears, add your site's URL and then click on **Submit**.
4. You must next verify your site. Bing will give you a choice of verification methods, but for this recipe we're using the **All in One Webmaster** plugin, so click on **Option 2: Copy and paste a tag in your default webpage**.
5. Find the verification number in the code that is shown – it will look something like this: **C27D268A4736287D9264RG7VV50Z401B**.
6. Copy the number and leave the **Bing Webmaster Tools** page open in your browser while you perform the next steps.

7. Log in to your WordPress admin dashboard.
8. Click on the **Settings** menu.
9. Click on the option **All in One Webmaster**.
10. On the screen that loads, paste the Google verification code into the blank field labeled **Bing WebMaster Central**, as you can see in the following screenshot:



11. Click on **Update options**.
12. Return to **Bing Webmaster Tools**, and click on the **Verify** button.
13. If you were successful, you will see a confirmation message.

How it works...

These two services work in a very similar fashion and provide very similar tools. Let's look at Google Webmaster Central for an example of what can be done.

Making an SEO Friendly Site

Once you've verified your site and Google has a chance to index it, you can log in to your Google account and access all tools and reports.

The screenshot shows the Google Webmaster Tools Dashboard for the website opensourcecms.pro. The dashboard is divided into several sections:

- Dashboard**: Shows search queries, crawl errors, keywords, and links to your site.
- Search queries**: A table showing search queries, impressions, and clicks. Data includes:

Query	Impressions	Clicks
typo3	2,000	<10
drupal 7 themes	1,600	110
open source cms	700	<10
drupal 7 bible	500	35
joomla 1.6 templates	500	16
cms pro	500	12
content	500	<10
drupal 7 theme	320	12
concrete5	320	<10
cms	320	<10

May 3, 2011 to Jun 2, 2011.
- Crawl errors**: A section showing unreachable URLs (1) updated on Jun 4, 2011.
- Keywords**: A chart showing keyword significance for drupal, cms, joomla, news, and wordpress.
- Links to your site**: A table showing domains and total links. Data includes:

Domains	Total links
richreves.net	167,888
richreves.com	45,052
ellizion.com	2,732
- Sitemaps**: A table showing sitemap status and URLs in the web index. Data includes:

Sitemap	Status	URLs in web index
/feed/	✓	10
/sitemap	✓	467

There's more...

Once your site is verified, you can access all of the powerful features and reports provided by Google Webmaster Tools.

Site configuration

This section of Webmaster Central provides you with an overview of the status of your site in the Google index. You can learn whether your feeds and sitemap are being indexed and you can also evaluate whether your `robots.txt` file is appropriate and not creating problems for the Google spider.

Your site on the web

The Your site on the web section shows how often your site is appearing in the search results and how many clicks came from Google searches. You can also review a list of keywords where your site has appeared in searches and a list of your internal links.

Diagnostics

As the name implies, the Diagnostics section helps you identify whether there are any significant problems with your site – from Google's perspective. Reports indicate whether Google suspects there is malware on our site and more importantly, gives you insights into crawl errors and statistics. This section also gives you a tool that lets you view your site as Google sees it, which is useful in helping to identify whether your key meta data and contents are visible to the Google spider.

Labs

Labs contains a varying set of new tools in development at Google Labs. Check this section regularly as the contents do change and sometimes you can find some very interesting tools that are still largely new to the Google world.

See also

- ▶ *Enhancing site indexing with XML sitemaps*

Improving SEO with the SEO Ultimate plugin

SEO is a popular topic and there are many WordPress plugins dedicated to enhancing your site's SEO. One of the best of the group is SEO Ultimate, a plugin that includes a large number of features to help optimize your site for the search engines. Among the functionality included with this plugin:

- ▶ Generate META tags automatically
- ▶ Edit META tags throughout the site
- ▶ Monitor for 404s
- ▶ Maintain canonical URLs
- ▶ Handle robot tags
- ▶ Insert code into the top or bottom of your pages
- ▶ Automatically create internal links

The plugin also includes some things you might not expect, including a competitor analysis tool and the ability to automatically insert a linkbox at the end of each content item.

Getting ready

SEO Ultimate is a third-party plugin. Accordingly, you must first install and enable this plugin on your WordPress site. Search for **SEO Ultimate** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



To learn more about this plugin, visit the developer's site at
<http://www.seodesignsolutions.com/wordpress-seo/>



How to do it...

After you have successfully installed the **SEO Ultimate** plugin, you will want to configure it a bit. To do so, follow these simple steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **SEO** menu.
3. On the page that appears, select the modules you wish to use; disable those you do not intend to use.
4. Among the key modules you will want to configure are the following:
 - Meta Descriptions**
 - Meta Keywords**
 - Meta Robot Tags**
 - Slug Optimizer**
 - Title Tag Rewriter**
5. As you configure each of these options, click on the **Save Changes** button after you finish each.

There's more...

Earlier in this chapter we discussed creating custom page titles and meta descriptions. Those recipes give both a manual option for dealing with these areas and the option to use the SEO Ultimate plugin. For those who want the most control, the SEO Ultimate option is the better choice. If you wish to use the manual approach, then you should disable the relevant modules in the plugin.

Five more tips for a better SEO

In this chapter, we saw many tips and tools to enhance your site's SEO and get more traffic from the search engines. SEO is a big subject and there are many other things that you can do to improve your likelihood of success. Here are five quick tips to help you get better rankings.

Get backlinks

In terms of SEO, the number of links back to your site is a key factor. Basically, the more backlinks you have, the better you'll be ranked. Getting backlinks isn't always easy. If, however, you produce good content, other sites will link to you. If you want to be more aggressive about building links, seek out similar sites and contact them directly to propose exchanging links.

Use the proper h tags structure

Proper use of h tags is important both for SEO and for accessibility. The tags should be used consistently, and in a fashion that clearly indicates the hierarchical structure of the content item.

An example of a bad title would be this:

```
<strong><font color="#00FF00" size="24px">My blog post  
title</font></strong>
```

A better title would look like this:

```
<h2>My blog post title</h2>
```

With the following in your style.css file:

```
H2 {font-family: Arial; size: 24px;  
color: #00FF00; font-weight: bold;}
```

Both of these code examples visually appear the same, but the second is much better for SEO purposes. Do not hesitate to check your theme file and verify that they're using a proper h tag structure.

Make sure your blog is XHTML valid

Search engines love valid XHTML websites. Having a valid XHTML codeset means that your pages are coded according to the W3C recommendations.

To check if your site is valid in terms of XHTML, go to <http://validator.w3.org/> and type your site's URL. If you have any errors, the validator will tell you where they're located and why it is a problem.

Use keywords in your content items

An important point for search engine ranking is keyword density. This refers to the frequency that a term appears throughout the code for a specific page.

Let's say you wrote a post about SEO for WordPress blogs. You'll probably want your post to be featured in search engines results pages when someone searches for keywords as such as 'WordPress SEO', or 'blog SEO'.

To improve your odds for success, you should start by writing a keyword-rich title for the article. A good example would be **SEO for WordPress blogs** or **Tips and tricks for better WordPress SEO**. These are good titles because they are concise, descriptive, and contain appropriate keywords.

It is also important that your post content contains the same keywords. You don't need to repeat them on each paragraph of course, but make sure to use your keywords frequently. You should also make sure the meta tags for page reflect the same keywords. Taken together, when managed properly, these factors will give you appropriate keyword density and improve your odds of ranking well for that page.

See also

- ▶ *Creating meta descriptions for your posts and pages*

8

Enhancing Usability and Accessibility

In this chapter you will learn about:

- ▶ Creating print friendly pages
- ▶ Extending WordPress search
- ▶ Enhancing navigation with breadcrumbs
- ▶ Stopping SPAM
- ▶ Optimizing performance with cache management
- ▶ Displaying a login form
- ▶ Displaying related posts
- ▶ Creating a Feature Posts block
- ▶ Adding a sitemap for your site visitors
- ▶ Creating a better tag cloud
- ▶ Adding lightboxes for your images

Introduction

Good site design includes putting thought into how to make the site easy to use to the widest number of people. In this chapter, we look at a number of plugins and techniques that are intended to make your site friendlier for visitors.

The recipes in this chapter are concerned with improving navigation, and making it easier for people to discover popular and relevant content. Usability is, in other words, not only good for the users, but also good for the site owners, as a usable site typically translates into more page views and better user engagement.

In this chapter, we also look at some enhancement techniques that are popular in site design today, for example, implementing tag clouds and using lightboxes for image display. While none of the recipes in this chapter are absolutely essential for your site, it is definitely worth considering adding at least some of these to your site.

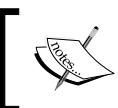
Creating print-friendly pages

Yes, it may seem a little obsolete in a technically advanced world and it isn't green at all, but the fact is that many Internet users still print pages for offline consultation. While some social sharing plugins also offer print options and you can always use your browser's print function, you may want to have more control over what your pages look like when printed.

In this recipe we install a plugin that not only enables a print friendly option, but also gives you complete control over the output.

Getting ready

To execute this recipe, you will need to install the **WP Print Friendly** plugin. You will need to install this plugin before you can get started. Search for **WP Print Friendly** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://www.thinkoomph.com/plugins-modules/wp-print-friendly/>



If you wish to apply any of the more advanced techniques discussed later in this recipe, you will also need a code editor and access to the files of the WordPress installation on your server.



This plugin has been known to cause conflicts with some SEO and permalinks plugins. Consult the plugin's FAQ page on WordPress.org to view an updated list.



How to do it...

Let us start with getting the system ready and configuring the plugin:

1. Log in to the WordPress **Dashboard**.
2. You will see a notification at the top of the page, advising you to refresh your permalinks, as shown in the following screenshot:

The screenshot shows the WordPress 3 Cookbook dashboard with the Plugins menu selected. A message box at the top states: "WP Print Friendly" has been activated. Below it, a note says: "You must refresh your site's permalinks before WP Print Friendly is fully activated. To do so, go to [Permalinks](#) and click the **Save Changes** button at the bottom of the screen. When finished, click [here](#) to hide this message." The main area lists three plugins:

- Akismet**: Version 2.5.3, By Automatic | Visit plugin site
- All in One Webmaster**: Version 7.0.4 | By Arpit Shah | Visit plugin site
- AskApache Password Protect**: Version 4.6.6 | By AskApache | Visit plugin site

3. Click on the **Settings** menu.
4. Click on the **Permalinks** option.
5. Click on the **Save Changes** button.
6. Click on the **WP Print Friendly** option in the **Settings** menu. You will see the **WP Print Friendly** page, as shown in the following screenshot:

The screenshot shows the "WP Print Friendly Options" page in the WordPress 3 Cookbook. The left sidebar has "WP Print Friendly" selected under the "Settings" menu. The main content area contains the following settings:

- Automatically add print links based on settings below?**: Radio buttons for "Yes" (selected) and "No".
- Automatically place link:** Radio buttons for "Above content", "Below content" (selected), and "Above and below content".
- Display automatically on:** Checkboxes for "Posts" (selected), "Pages" (selected), and "Reviews".
- Text for link to print entire item:** Input field containing "Print this!".
- Text for link to print current page:** Input field containing "Print this!". A note below says: "If viewing a multipage post (set by using the <!--nextpage--> tag), the text above is used for a link to print just the current page. To hide this link, clear the field's contents."
- CSS for print links:** Input field containing "print_link". A note below says: "For page-specific print links, a second class, created by appending _cur to the above text, is added to each link. Be aware that Internet Explorer will only interpret the first two CSS classes, so if multiple classes are entered above, the page-specific class may not be available in IE."
- Open print-friendly views in:** Radio buttons for "In the same window" and "In a new window" (selected).

At the bottom are "Save Changes" and "Version 3.4.3" buttons.

7. Select the options you want.
8. Click the **Save Changes** button.

How it works...

The **WP Print Friendly** plugin works by tapping into the templating system of WordPress 3. The plugin leverages features of the core, specifically the optional templates and the system CSS.

There's more...

To get the most out of this plugin, you need to do a bit more. You can style both the print link and the resulting print page.

To style the print link

As you can see in the screenshot above, the plugin specifies a class specifically for the purpose of handling the styling of the print link that appears on the pages and posts of your site. The default class is named `print_link`, but you can change it at any time from the **WP Print Friendly** settings page.

To take advantage of this feature, you will need to edit your theme's active stylesheet and add a definition for `.print_link`.

To style the print page

If you look inside the WP Print Friendly plugin directory you will find a file named `default-template.php`. To gain control over the formatting of your print friendly pages, follow these steps:

1. Copy the `default-template.php` file.
2. Paste the copy into your active theme's directory.
3. Rename the file `wpf.php`.
4. Open the file for editing.
5. Make any customizations you desire.
6. Save the file.

Now, when someone clicks on the print link on one of your articles, they will be shown the new template you just created. This feature makes it possible for you to tailor the print friendly pages to fit the identity of your site and to carry relevant information you want people to have when they print the article.



Note that since the plugin uses the default templating functionality built into WordPress 3, you can also create template suggestions to be used in specific situations. If, for example, you want to have different print formats for various taxonomy terms, or for custom content types, you can do so. Follow the standard WordPress naming conventions to call the relevant template. To produce a template for use by a specific taxonomy term use, wpf-[taxonomy-term].php. To produce a template for use by a custom content type, use wpf-[custom-content-type-name].php.

Extending WordPress search

WordPress comes with a site search functionality. The default search is quite good, but if you want to obtain a more complete set of search results, you will need to look at installing a plugin that provides enhanced search capabilities.

In this recipe, we look at how you can index your site more completely and provide a more comprehensive set of search results for your site user.

Getting ready

To execute this recipe, you will need to install the **Search Engine** plugin. You will need to install this plugin before you can get started. Search for Search Engine inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



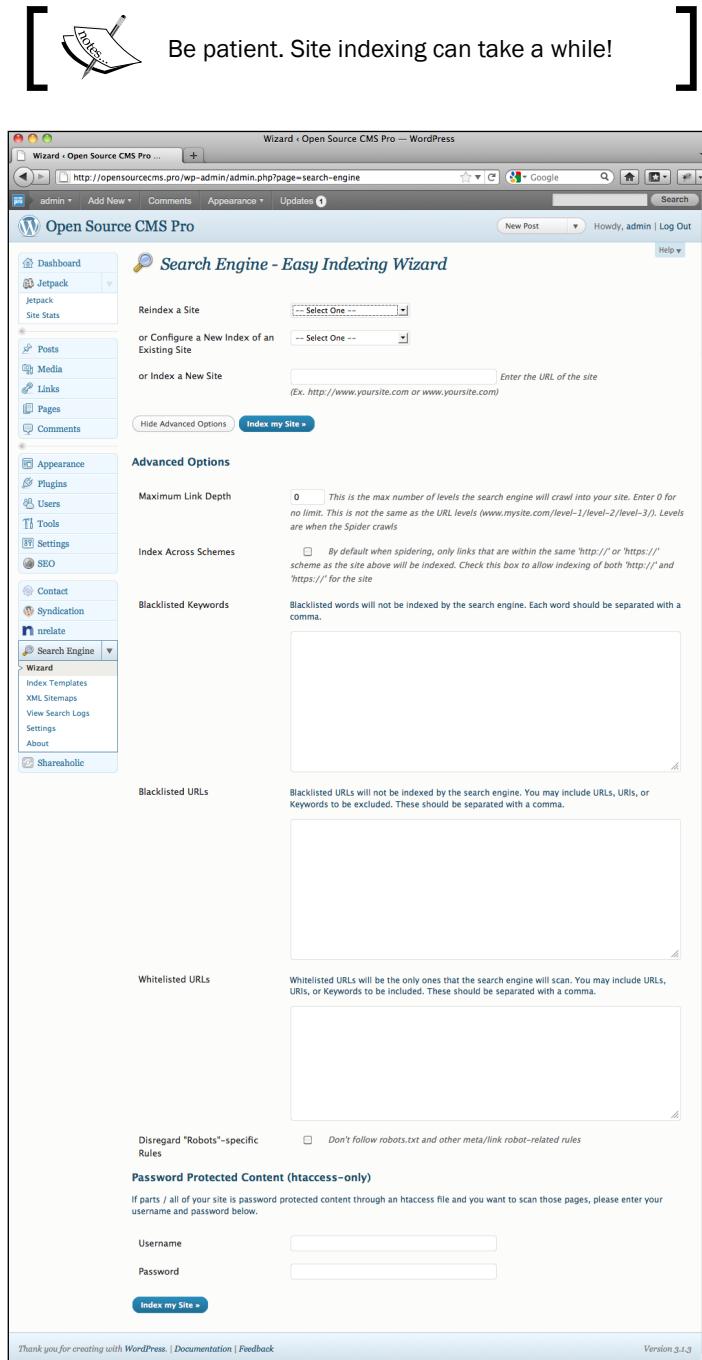
You can learn more about the plugin by visiting the developer's website at <http://scottkclark.com/wordpress/search-engine/>

How to do it...

There's a bit of configuration needed for the plugin to work properly:

1. Log in to your WordPress **Dashboard**.
2. Click on **Search Engine** menu.

3. Click on **Wizard** option. The following screenshot will appear:



4. Click **Show Advanced Options** to expose all the configuration options for the plugin.
5. Select your site's name from the **Configure a New Index of an Existing Site**. If your site name does not appear there, enter it in the field **Index a New Site**.
6. Select the configuration options you desire from the choices on the page.
7. Click on the **Index my Site** button.

How it works...

The **Search Engine** plugin indexes pages in a comprehensive fashion. Unlike the default WordPress search, which is focused exclusively on your article content, the **Search Engine** plugin indexes the pages as the visitors see them; that means not only posts and pages, but also custom content types, plugin generated content, sidebars, and widgets.



You can control the indexing through the use of a `robots.txt` file. Files blocked in `robots.txt` will also not be indexed, unless you configure the plugin to ignore the `robots.txt` file. If you need more granular control, exclude content within a specific section of a page by added the class `.noindex` to the element tag.

There's more

You can index your site manually if you wish, but it's much more convenient to have it indexed frequently and automatically. To set up automatic indexing, you will need to have a server that supports cron. If you have access to cron, then follow these steps:

1. Log in to the WordPress **Dashboard**.
2. Click on the **Search Engine** menu.
3. Click on the **Settings** option.

4. Copy the information in the field **URL to Cronjob**, as you can see in the following screenshot:

The screenshot shows the 'Search Engine - Settings' page. It includes fields for 'Default Site for Search' (set to 'http://opensourcecms.pro'), 'Cronjob Token' (a long secure key), and 'URL to Cronjob' (set to 'http://opensourcecms.pro/wp-content/plugins/search-engine/cronjob.php?template_id=YOUR_'). There is also a 'Reset ALL Data' button with a warning message and a 'Save Settings' button.

5. Access your web hosting control panel, or use SSH and work on the command line.
6. Access the cron functionality on the control panel.
7. Enter the data you copied from the URL to Cronjob.
8. Set the frequency you want the cron job to run.
9. Save the changes.

Your site will now be automatically indexed, at the frequency you have specified. To check to see when the last indexing was run, access the information in your Dashboard by clicking on the option **Index Templates** on the **Search Engine** menu.

Enhancing navigation with breadcrumbs

If you are looking for ways to improve your site's usability, adding a breadcrumb trail is definitely an option to consider.

What's a breadcrumb trail? According to Wikipedia:

 Breadcrumbs typically appear horizontally across the top of a webpage, usually below any title bars or headers. They provide links back to each previous page that the user navigated through in order to get to the current page, for hierarchical structures usually the parent pages of the current one. Breadcrumbs provide a trail for the user to follow back to the starting/entry point of a website. Generally, a greater than symbol (>) is used as hierarchy separator, although other glyphs can be used to represent this.

In this recipe we explore using a plugin to add breadcrumbs functionality to your site.

Getting ready

To execute this recipe, you will need to install the Breadcrumbs Plus plugin. You will need to install this plugin before you can get started. Search for **Breadcrumbs Plus** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

 You can learn more about the plugin by visiting the developer's website at <http://snippets-tricks.org/proyecto/breadcrumbs-plus-plugin/>

In addition to installing the plugin, you will also need a code editor and access to the files of the WordPress installation on your server.

How to do it...

Setting up a breadcrumb trail involves two separate processes. First you must install the plugin, then you must add a line of code to your theme.

Once you have installed and activated the plugin, follow these steps to get the code into your theme files:

1. Access your WordPress installation on your server.
2. Download the template files you are using on your site.
3. Open each template file for editing.

4. Add to each file the following line of code:

```
<?php breadcrumbs_plus(); ?>
```



Make sure you don't place the line of code inside of an existing php block!

5. Save the files and return them to your server, overwriting the original files.

If you visit your site, you should now see a breadcrumb trail on all the pages whose templates you modified.

Which templates to modify?

The answer depends on what theme you are using and which content types and site functions you have enabled. Looking at the default TwentyTen theme, most people would certainly want to add the breadcrumb function to the file `single.php`, which controls the display of single posts and `page.php`, which controls the display of the page content type. Additionally, if you are using categories, you will want to modify `category.php`. If you are using tags, also modify `tags.php`. If you are using the archive functionality, modify `archive.php`. Another option is to add breadcrumbs to the author pages, by modifying `author.php`. If you have created custom content types, or you are using a more complex theme, this list may well be longer.

How it works...

The Breadcrumbs Plus plugin enables the `breadcrumbs_plus()` function. The function includes a number of variables you can use to customize your breadcrumb display, as discussed in the next section.

You control the placement of the breadcrumbs on the page by where you place the function inside the template files, and through the use of CSS styling.

There's more...

The Breadcrumbs Plus plugin includes a set of arguments that can be added to the function to customize the display. The function syntax is as follows:

```
<?php breadcrumbs_plus( $args ); ?>
```

The possible arguments include:

- ▶ `prefix`: Used to add things, typically code for styling, before the breadcrumbs.
- ▶ `suffix`: Used to add things, typically the closing tags for styling, after the breadcrumbs.

- ▶ `title`: The text shown before the first link in the breadcrumb trail.
- ▶ `home`: The name to be shown for the home page link.
- ▶ `sep`: The character to be used in between each item in the breadcrumb trail.
- ▶ `front_page`: Set to true to show the breadcrumb trail on the home page.
- ▶ `bold`: Set to true to make the text in the breadcrumb trail bold.
- ▶ `show_blog`: Set to true to display the name of the blog before individual posts.
- ▶ `echo`: The echo parameter appears to have no functionality in the present version of the plugin.
- ▶ `singular_post_taxonomy`: Set to display the category to which a single post belongs.

The default values are:

- ▶ `'prefix' => '<p>'`
- ▶ `'suffix' => '</p>'`
- ▶ `'title' => _('You are here', 'breadcrumbs-plus')`
- ▶ `'home' => _('Home', 'breadcrumbs-plus')`
- ▶ `'sep' => '>>'`,
- ▶ `'front_page' => false`
- ▶ `'bold' => true`
- ▶ `'show_blog' => true`
- ▶ `'echo' => true`
- ▶ `'singular_post_taxonomy' => 'category'`

Let's look at an example of how to use this information. The default formatting provides output like this:

You are here: Home >> [category] >> [post name]

We want to construct a custom breadcrumb trail that looks like this:

History : Top > [category] > [post title]

To achieve this change in the output, we need to modify the function to override the default values. The customized function would look like this:

```
<?php breadcrumbs_plus( array( 'title' => 'History : ', 'home' =>
'Top', 'sep' => '>' ) ); ?>
```



You can also modify the styling of the breadcrumbs trail by adding the class `.breadcrumbs-plus` to your active theme's stylesheet.

Stopping SPAM

All website owners have to be alert for SPAM postings on their websites. Monitoring your site and policing comments to remove unwanted commercial solicitations is not only time consuming, but also prone to error. SPAM can clog up the comments on your site and create a bad impression of your professionalism. Moreover, it can also be a potential security issue, as SPAM can be used as a vector for malware.

In this recipe, we look at implementing the Akismet system to help automatically monitor your site for SPAM comments and keep them from appearing to your site visitors.

Getting ready

To execute this recipe, you will be using the Akismet plugin. This plugin is included in the WordPress core. You should not need to install it – unless you have previously deleted it from your system. Check the **Plugins** page to see if it is there and if so, activate it. If it is not present, you will need to install this plugin before you can get started. Search for **Akismet** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://akismet.com/>

How to do it...

To create featured posts, simply add it to the "featured" category. The five most recent posts will be shown on your blog homepage.

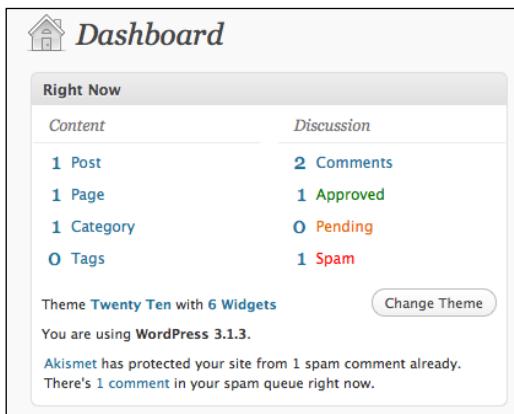
1. Log in to your WordPress **Dashboard**.
2. Click on the **Plugins** menu.
3. Click on the **Plugins** option.
4. If you have not done so already, click on the **Activate** link for the **Akismet** plugin.
5. The system will provide a notification that you need to enter an **Akismet API key**. Either click the link in the warning, or click the option **Akismet Configuration** on the **Plugin** menu.

6. On the **Akismet Configuration** page, shown in the next screenshot, you will need to enter your **Akismet API key**. If you do not have a key, you will need to visit <http://akismet.com> and obtain a key. Keys are free for personal sites.
7. Select any other options you desire.
8. Click on the **Update options** button.

The screenshot shows the 'Akismet Configuration' page within the WordPress 3.1.3 admin interface. The left sidebar includes links for Dashboard, Posts, Media, Links, Pages, Comments, Appearance, Plugins (selected), Add New, Editor, Akismet Configuration (selected), Users, Tools, and Settings. The main content area has a yellow header bar stating 'Akismet is almost ready. You must [enter your Akismet API key](#) for it to work.' Below this, a text box says 'For many people, Akismet will greatly reduce or even completely eliminate the comment and trackback spam you get on your site. If one does happen to get through, simply mark it as "spam" on the moderation screen and Akismet will learn from the mistakes. If you don't have an API key yet, you can get one at [Akismet.com](#)'. A section titled 'Akismet API Key' contains a text input field with placeholder 'Please enter an API key. ([Get your key.](#))' and a link '(What is this?)'. There are two checkboxes: 'Auto-delete spam submitted on posts more than a month old.' and 'Show the number of comments you've approved beside each comment author.' A 'Update options >' button is located below these fields. The 'Server Connectivity' section features a green header bar stating 'All Akismet servers are available.' It displays a table showing four Akismet servers (IP addresses) all in 'Accessible' status. A note indicates 'Akismet is working correctly. All servers are accessible.' and 'Last checked 1 min ago.' A 'Check network status >' button is present. At the bottom, a link '[Click here](#) to confirm that [Akismet.com is up.](#)' is shown. The footer includes links for 'Thank you for creating with WordPress.', 'Documentation', and 'Feedback', along with 'Version 3.1.3'.

How it works...

Akismet was created by Automattic, the creators of WordPress. The plugin is designed to provide a system for reporting and then identifying SPAM and SPAMmers. When a comment is posted, Akismet will assess it on a variety of factors in an attempt to identify whether it is potential SPAM. If Akismet suspects it is SPAM, the comment will automatically be put into the SPAM queue and a notification will appear on your dashboard, as seen in the following screenshot :



You can then check the comment in the queue. If it is SPAM you can delete it permanently. If it is not SPAM, you can mark it as **Not Spam** and return it to the publication queue. Over time, the Akismet system will continue to refine its SPAM detection abilities and learn from what you tell it about the content of the comments on the site.

Optimizing performance with cache management

As both website users and website owners, we want sites to load quickly without long delay. With Google now looking at site performance as a factor in search rankings, it is even more important that a site performs well relative to competitors. Site performance is impacted by a number of factors; one of the key issues is the amount of time it takes the server to generate pages on the site. An easy way to improve your site's performance is to implement caching, which takes some of the load off the server by making copies of frequently used files and displaying them to site visitors, instead of relying on the server to construct/retrieve the files every single time they are requested.

In this recipe, we look at implementing the powerful **WP Super Cache** plugin. When properly configured, this plugin can achieve considerable improvements in site performance.

Getting ready

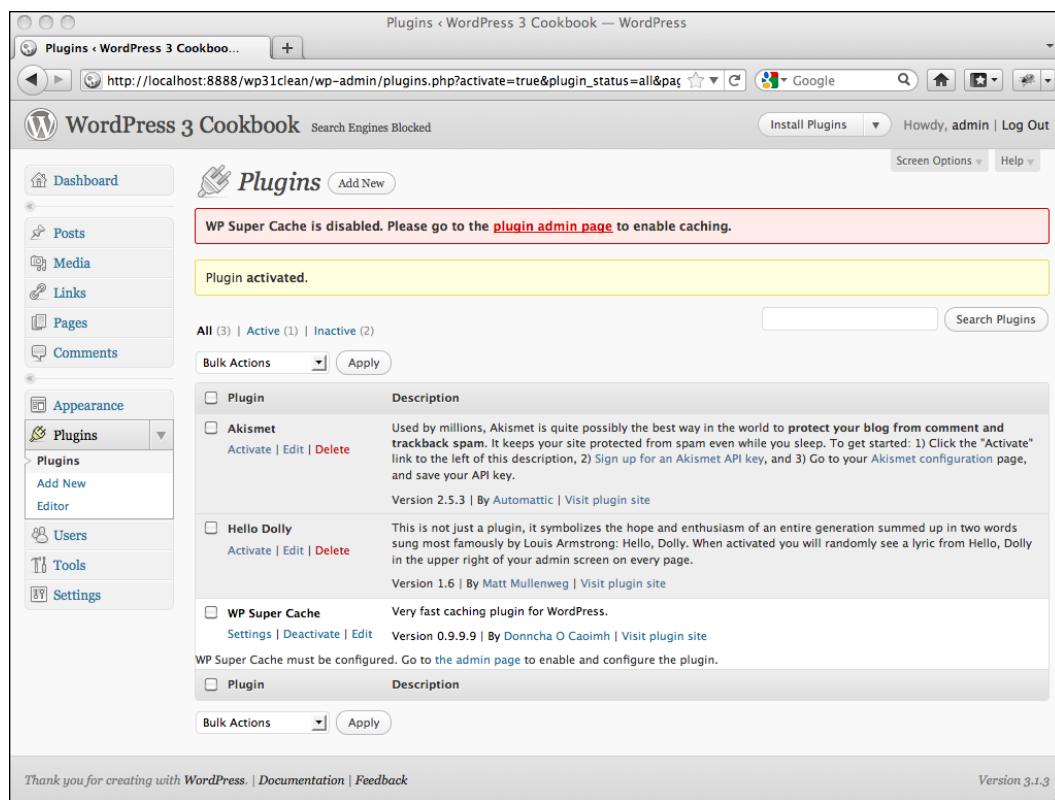
To execute this recipe, you will need to install the **WP Super Cache** plugin. You will need to install this plugin before you can get started. Search for **WP Super Cache** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

 You can learn more about the plugin by visiting the developer's website at <http://ocaoimh.ie/wp-super-cache/>

How to do it...

The **WP Super Cache** plugin is a complex piece of code with a number of configuration options. Let's look at basic setup first:

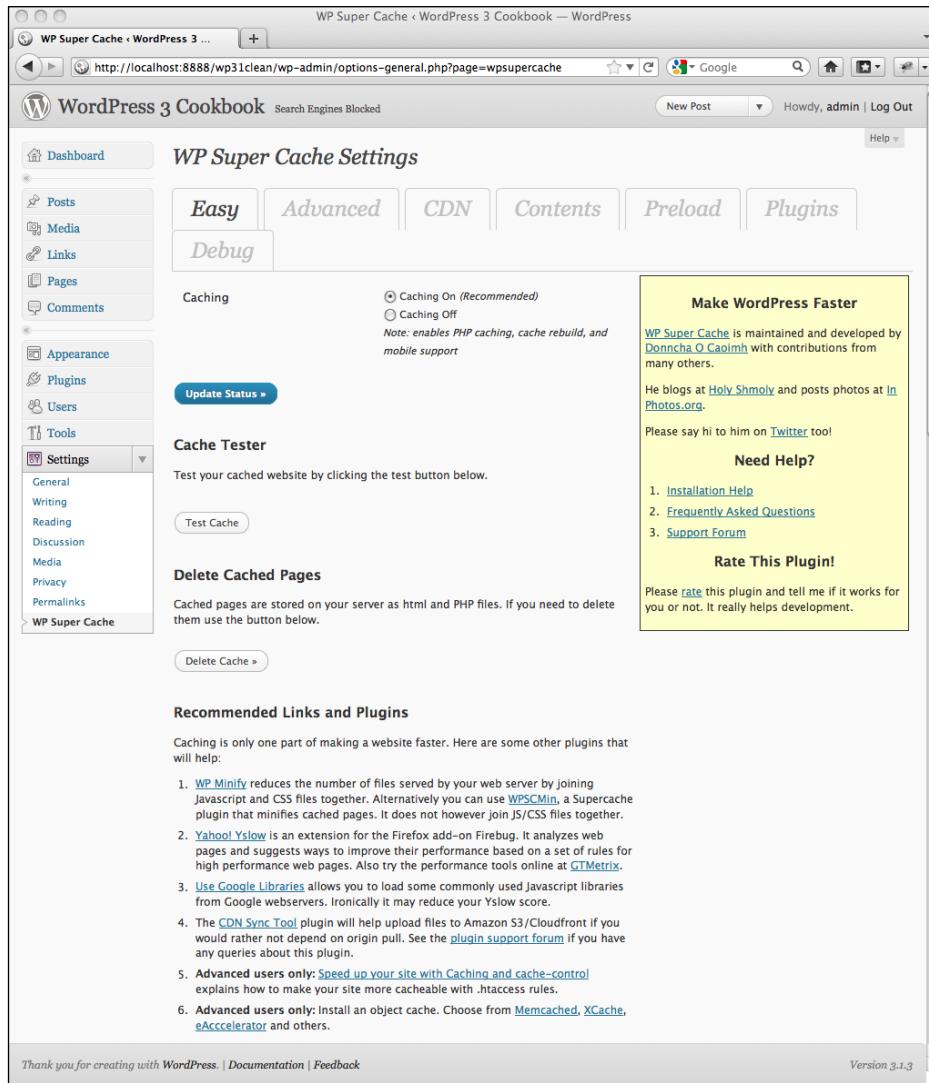
1. After you install and activate the plugin, you will see a notification that the plugin must be enabled, as shown in the following screenshot:



The screenshot shows the WordPress 3.1 Admin Plugins page. The left sidebar has 'Plugins' selected under 'Appearance'. The main area shows a list of plugins. The 'WP Super Cache' plugin is listed and has a yellow box around it. The box contains the text: 'WP Super Cache is disabled. Please go to the [plugin admin page](#) to enable caching.' Below this, a green box says 'Plugin activated.' At the bottom of the list, there is a note: 'WP Super Cache must be configured. Go to the [admin page](#) to enable and configure the plugin.'

2. Click on the **Settings** menu.
3. Click on the option **WP Super Cache**.
4. On the **WP Super Cache Settings** page, seen in the next screenshot, select the choice **Caching On**.
5. Click on **Update Status**.

Caching is now enabled for your site; however, to get the most out of the plugin, you need to explore the options found on the various tabs seen at the top of the **WP Super Cache Settings** page, as shown in the following screenshot:



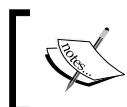
Follow these steps to configure the plugin:

1. On the **WP Super Cache Settings** page, select the tab **Advanced**.
2. Select the option **Cache hits to this website for quick access**.
3. Select the option **Use mod_rewrite to serve cache files**.
4. Select **Compress pages so they're served more quickly to visitors**.
5. Select **304 Not Modified browser caching. Indicate when a page has not been modified since last requested**.
6. Select **Don't cache pages for known users**.
7. Select **Cache rebuild. Serve a supercache file to anonymous users while a new file is being generated**.
8. Select **Extra homepage checks**.
9. Click **Update Status**.

The system will display a notice that the **Rewrite rules must be updated**, as shown in the following screenshot:



Scroll down the page and click on the button labeled **Update Mod_Rewrite Rules**.



You probably also want to exclude certain types of pages from being cached, particularly search results and feeds. You can select those options, and others, on the **Advanced** tab.

How it works...

WP Super Cache's purpose is static caching. The plugin generates HTML files that are served directly by Apache without processing comparatively heavy PHP scripts, resulting in a significant increase in speed for serving of your WordPress blog.

There's more...

This plugin supports a number of options. You should explore all the tabs to learn what choices appear. As you grow more familiar with the plugin, you may wish to be more aggressive about your caching. Let's look at two techniques you can apply.

Using a content delivery network

WP Super Cache offers CDN support. CDN is a content delivery network, which is a system of computers that contain cached copies of data. As the network distributes the load between multiple computers, it tends to increase performance and reduce latency. By default, the system uses origin pull to populate the CDN. If you prefer to upload and synch the files yourself, you can use the **CDN Sync Tool** plugin.



You can set up CDN support by clicking on the CDN tab on the WP Super Cache Settings page.



Preloading content

Another technique that can improve performance and can also help your Google ranking, is the selective use of preloading. Click on the **Preload** tab on the **WP Super Cache Settings** page to see the options available. Select the option **Preload mode**, then click on **Preload Cache Now**. The system will make static copies of the pages on your website and serve them to visitors.



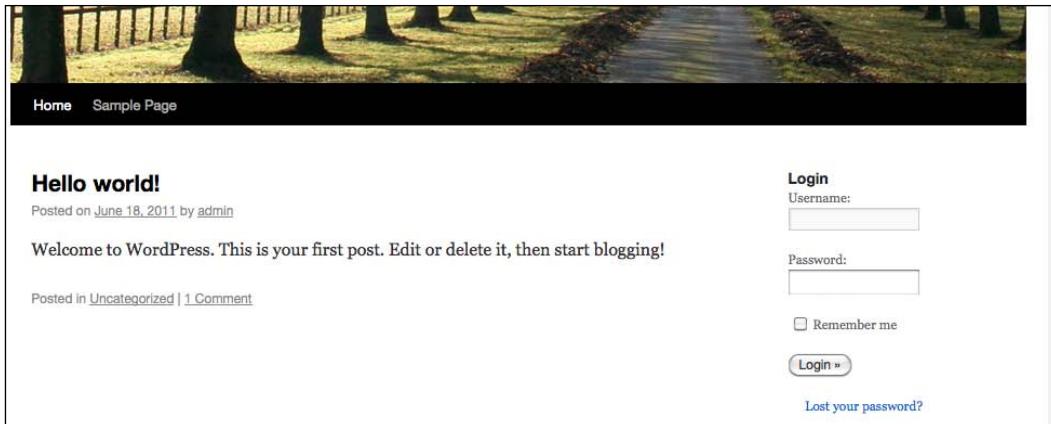
If you have a very large site, you should limit the number of items preloaded, as the plugin will create a large number of files to support the caching. If you are on a shared webhost, excessive preloading may cause you problems, or may even be prohibited by the host.



Displaying a login form

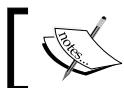
Having a login form visible on the page will improve the usability of your site. Instead of having to click on a link and wait for a new page to load, users can directly enter their username and password and immediately log in.

In this recipe, we implement the Sidebar Login plugin to add not only a login form, but also password reminder and registration links. The following screenshot shows the plugin in action, with the login widget assigned to the right sidebar of the default theme:



Getting ready

To execute this recipe, you will need to install the **Sidebar Login** plugin. You will need to install this plugin before you can get started. Search for **Sidebar Login** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



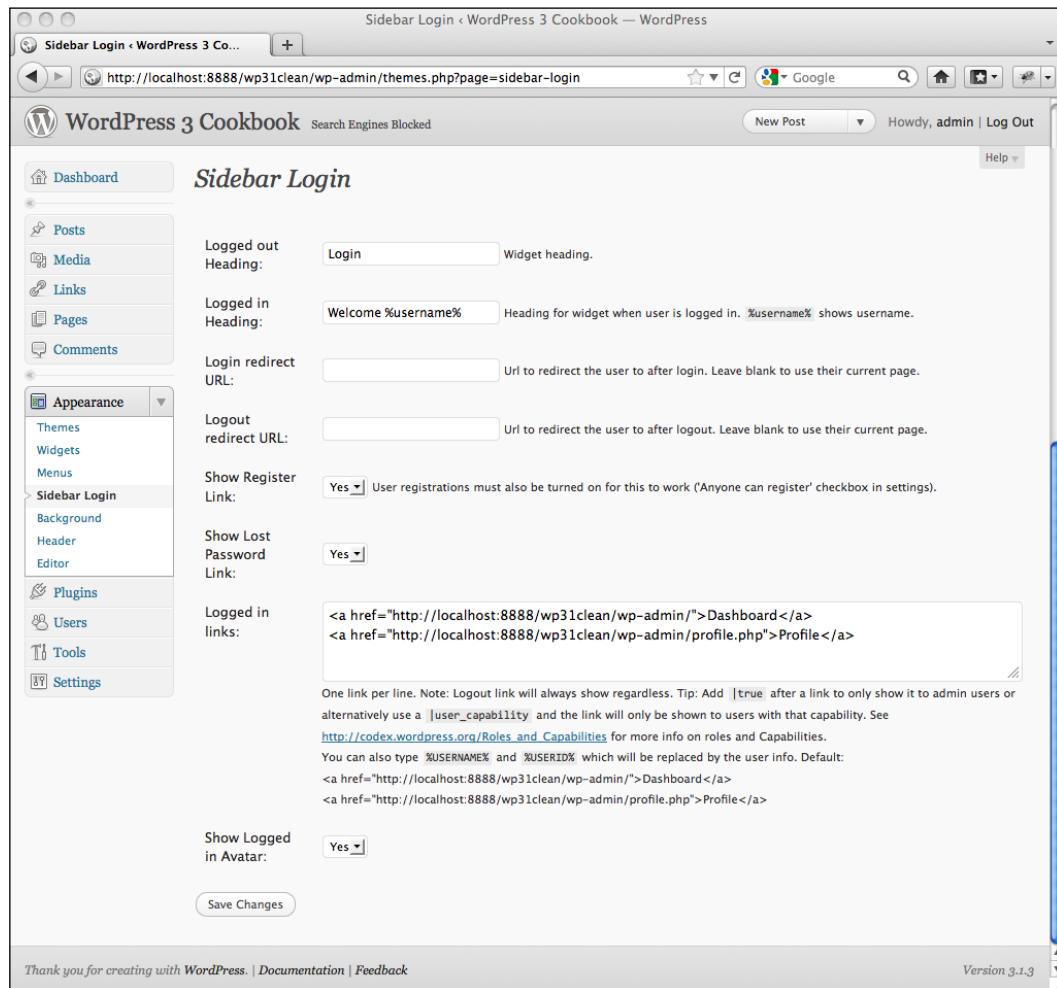
You can learn more about the plugin by visiting the developer's website at <http://wordpress.org/extend/plugins/sidebar-login/>

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the option **Sidebar Login**.
4. On the **Sidebar Login** configuration screen, shown in the next screenshot, you can customize the appearance of the login box and related links.
5. Click on the **Save Changes** button.
6. Click on the **Widgets** link on the **Appearance** menu.
7. Grab the **Sidebar Login** widget and drag it to the widget area where you want it to appear.

Enhancing Usability and Accessibility

The widget will now appear on your pages, in the widget area you assigned it to.



How it works...

The plugin simply provides an alternative to the default login form on the dedicated login page. In addition to the standard functionality, the plugin also allows you to control redirects after login and provides useful links once the user is authenticated.

Displaying related posts

As a site owner, you want to give visitors reasons to stay on your site. One of the most effective methods for increasing page views is to display a list of related posts. Providing the visitors with a list of other content items that are similar to the one they are viewing is not only a good deal for site owners, but also for visitors, as it provides them with access to richer information about a topic.

In this recipe, we look at implementing a plugin to add related posts functionality to your site. In the first part of the recipe, we look at a basic plugin. In the second part of the recipe we look at an alternative plugin solution.

Getting ready

To execute this recipe, you will need to install the All Related Posts plugin. You will need to install this plugin before you can get started. Search for **All Related Posts** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at
<http://blog.bigcircle.nl/about/wordpress-plugins/>

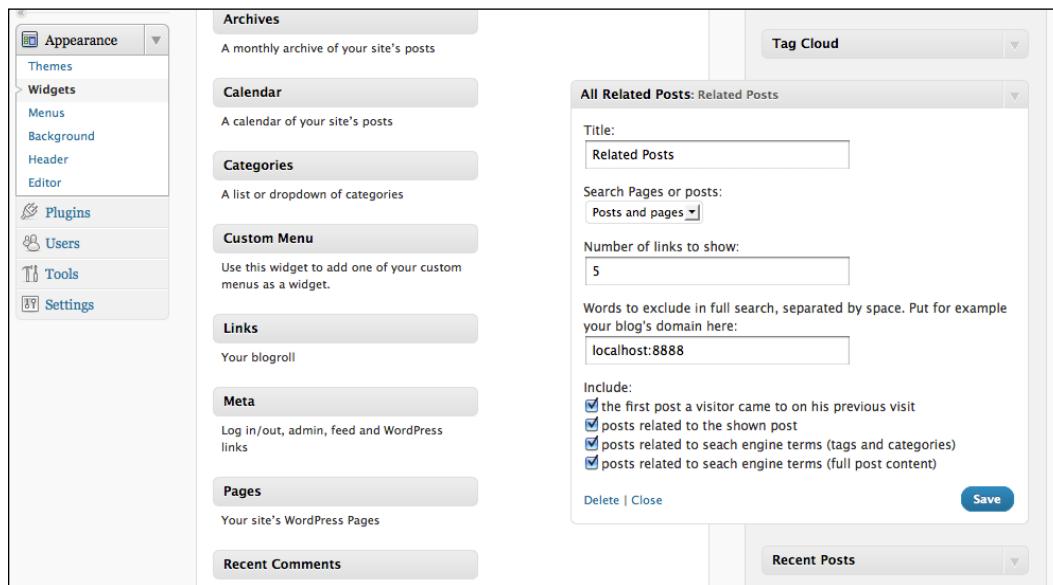


How to do it...

To configure this plugin and enable it on the site, follow these simple steps:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the **Widgets** option.
4. Find the **All Related Posts** widget and drag it to one of your site's Primary Widget Areas.

5. Click on the arrow on the widget's title bar to expand it and view the configuration options, as shown in the following screenshot:



6. Select the options you wish to use.
7. Click on the **Save** button.

If you now visit the front-end of your WordPress site, you should see the plugin in action. If it is not showing any links inside the related posts widget, click through a few pages; you should start to see output in the widget.

How it works...

The **All Related Posts** plugin uses a variety of methods for selecting the posts that are displayed. You can see the choices available in the previous screenshot:

- ▶ **the first post a visitor came to on his previous visit**
- ▶ **posts related to the shown post**
- ▶ **posts related to search engine terms (tags and categories)**
- ▶ **posts related to search engine terms (full post content)**

Of the choices, the second is the most commonly used criteria for determining whether posts are related. The other options offered by the plugin, however, are interesting. The first option relates to repeat visitors; if the visitor has been to the site in the past, the plugin will show them things they looked at on the previous visit. The latter two choices both affect visitors who come to your site through a search engine; the posts shown in the widget will be based on the words that were entered in the search query.

You can use any, or all of the options. The best approach is to set one up and view the results.

There's more...

While the **All Related Posts** plugin is a good solution, if you want more control, and more options, consider the nrelate Related Content plugin. The plugin works in a completely different fashion. With nrelate, your site will be indexed by nrelate's own spider. The indexing will create a listing of all the content on your site and thereafter, the plugin will draw up the index in order to find the most relevant onsite content.

Though nrelate offers only one matching methodology for identifying related content, it is extremely good at producing posts on the basis of relevance. You can configure both the degree of relevance and the depth of the indexing, giving you the option to provide highly relevant recommendations to your site visitors.

Another attractive feature of this plugin is the flexibility in layout. As you can see in the next screenshot, you have multiple choices for placing the related content list; you are not restricted to widget areas (though the plugin does also include a widget). If you prefer, you can also embed the output directly into your theme files. nrelate also comes with some styling options or, if you prefer, you can remove all styling and use the default theme styles.

The screenshot shows the 'Layout Settings' page of the nrelate plugin. The interface is a form with several sections:

- Layout Settings**: A header section asking "Where do you want your related content to display?"
- Which pages should display related content?**: A list of checkboxes for different page types:
 - Front Page
 - Single Posts
 - Pages
 - All Archives
 - Category Archives
 - Tag Archives
 - Author Archives
 - Date Archives
 - Search Results
 - Attachment Pages
- Top of post (Automatic)**: A section with a checkbox that is unchecked.
- Bottom of post (Automatic)**: A section with a checkbox that is checked.
- Widget area or Sidebar (Automatic)**: A section with a link to "your widget page."
- Add to Theme (Manual)**: A section with a text input field containing code and a note: "Add this code anywhere in your theme to show related content: <?php if (function_exists('nrelate_related')) nrelate_related(); ?>"
- Change the Style**: A section with a link to "Choose a style from our Style Gallery"
- Would you like to support nrelate by displaying our logo?**: A section with a checkbox that is checked.

At the bottom are two buttons: "Save Changes" and "Preview".

Creating a Featured Posts block

In the default WordPress installation, new posts on your site are displayed on the home page in chronological order. While you can control the output on the home page to a certain extent, what you cannot do is select specific articles to be featured at the top of the page, or in a widget area.

In this recipe we look at a solution that allows you to mark posts you want to be featured and then display those together as a group. This recipe relies on a plugin and modification to your theme files.

Getting ready

To execute this recipe, you will need to install the **List Category Posts** plugin. You will need to install this plugin before you can get started. Search for **All Related Posts** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

In addition, you will also need a code editor and access to your WordPress installation on your server.



You can learn more about the plugin by visiting the developer's website at <http://foro.picandocodigo.net/categories/list-category-posts>

How to do it...

There are two parts to this recipe. In the first, we create a dedicated category to use for our featured posts; in the second, we modify the theme files to display the category. Let's start with the creation of a new category:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Posts** menu.
3. Click on the option **Categories**.
4. In the **Name field**, enter **Featured**.
5. Click on the **Add New Category** button.
6. The newly-created **Featured** category will now appear in the list of categories on the right side of the page. Click on the **edit** button, immediately below the Featured category's name.

7. The edit category screen will load. Look at the URL in the browser's address bar and find the value for **category&tag_ID**. Note that value as you will need it in the next part of this recipe.

To make this feature work, you will need to have at least one post assigned to the new Featured category, so assign a couple for testing purposes and let's move on to the next part of the recipe. Next, let's open the theme files and add the shortcode enabled by the plugin:

1. Access your WordPress installation on the server.
2. We're going to add the **Featured Posts** list to the top of the home page only, so open the `index.php` file for editing.
3. Add the following code where you want the **Featured Posts** block to appear:

```
<h2>Featured Posts</h2>
<?php echo do_shortcode("[catlist id=9 excerpt=yes]"); ?>
<hr />
```

4. Save the file.

Now, if you view the home page of your site, you should see at the top of the content area a list of all posts assigned to the Featured category.



You could also place this block of posts inside a content item, but the syntax for the use of the shortcode will be different. Instead of wrapping the shortcode in PHP tags, you would simply switch your editor into HTML mode and type the following into the body of the post: `[catlist id=9 excerpt=yes]`

How it works...

The **List Category Posts** plugin enables for your use a new shortcode, `catlist id=x`, where x is the ID of the category you wish to display. Shortcodes can be used inside content items, or inside widgets, or inside your templates. In this recipe, we want to display Featured Posts at the top of our home page, so we edited the template being used for the home page in this theme.



This recipe uses the default TwentyTen theme. If your theme uses a different file for the home page, for example, `home.php`, then you will modify that file, not `index.php`. Note that this will impact where the output appears. If, for example, your theme uses the `index.php` file for multiple pages, your output will show on all.

There's more...

This plugin enables a number of parameters that allow you to customize the output of the shortcode. In the example code above you see one of those parameters being used, `excerpt`.

The available parameters are shown in the following table:

Parameters	Purpose	Valid values
<code>id</code>	Specify the category to display, by category ID. You can display multiple categories by separating them with a comma for example, <code>id=1,3,5</code>	Integer
<code>name</code>	Specify the category to display, by category name.	Text
<code>tags</code>	Display posts from a specific tag.	Text
<code>orderby</code>	Customize the order.	author, category, content, date, ID, menu_order, mime_type, modified, name, parent, password, rand, status, title, type.
<code>order</code>	Set alphabetical order.	ASC, DESC
<code>numberposts</code>	Number of posts to display. Default is 5. Set to -1 to remove limitation.	Integer
<code>date</code>	Display the post date. The default is no.	yes, no
<code>author</code>	Display the post author's name. The default is no.	yes, no
<code>dateformat</code>	Format of the date output.	See, http://codex.wordpress.org/Formatting_Date_and_Time for possible formats
<code>template</code>	Used to specify a template for the output.	Template name, without the file extension.
<code>excerpt</code>	Include an excerpt from the post. Default is no.	yes, no
<code>excludeposts</code>	IDs of posts to exclude from the list.	Integer
<code>offset</code>	Pass over one or more initial posts.	Integer

Parameters	Purpose	Valid values
content	Show the full content of the post. Default is no.	yes, no
catlink	Show title of category with a link to the category. Default is no.	yes, no
comments	Show comment count for each post. Default is no.	yes, no
thumbnails	Show post thumbnails. Default is no.	yes, no
post_type	The type of post to show. Default is post.	post, page, attachment, any
post_parent	Show only the children of the post with this ID.	Integer
class	CSS class for the UL generated.	Text

Note that you can also create custom fields. To do so, you must specify two values: `customfield_name` and `customfield_value`. Both values must be defined for the custom field to work.

Adding a sitemap for your site visitors

Adding a sitemap to the front-end of your site has two key advantages: First, a sitemap can improve usability by helping visitors find content on your site and navigate more easily. Second, a sitemap can deliver search engine ranking benefits as it increases internal link density and can also promote fuller indexing of your site's contents.

In this recipe we look at implementing a plugin to automatically generate and maintain a sitemap for the front-end of your website.



This recipe is not about building XML sitemaps; those are intended for the search engines, not for your site visitors. The topic of XML sitemaps is dealt with in *Chapter 7, Making an SEO Friendly Site*.

Getting ready

To execute this recipe, you will need to install the **HTML Sitemap Generator** plugin. You will need to install this plugin before you can get started. Search for **HTML Sitemap Generator** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



You can learn more about the plugin by visiting the developer's website at <http://cranesandskyhooks.com/wordpress-plugins/html-sitemap-generator/>

How to do it...

There are two parts to this recipe. You must configure the sitemap settings and you must add the shortcode to a page on your site to display the sitemap:

1. Log in to your WordPress **Dashboard**.
2. Click on the **Settings** menu.
3. Click on the option **HTML Sitemap**.
4. View the options and select those you desire for your site. The options are shown in the next screenshot.
5. Click on the **Save Settings** button.

Next, let's set up a dedicated page to hold the sitemap:

1. Click the **Pages** menu.
2. Click on the option **Add New**.
3. In the **Title** field, enter **Site Map**.
4. In the editor box, switch to **HTML**.
5. Enter the sitemap shortcode as follows: [sitemap]
6. Click on the **Publish** button.

In the default installation with the TwentyTen theme installed, the steps above are all you need to do. With another theme, however, you may need to add the new page to one of your theme's menus to make it visible to site visitors.

HTML Sitemap Generator < WordPress 3 Cookbook — WordPress

Howdy, admin | Log Out

HTML Sitemap Generator

Sitemap Options

To create an HTML sitemap for your site, configure its settings below, then simply add the `[sitemap]` shortcode to the page where you want it to appear.

Feeds:

- Include post feed
- Include comment feed

Authors:

- Include authors
- Display post count for authors

Pages:

- Include pages
- Add a 'Home' link to the page list

Enter a comma-separated list of page IDs to exclude, e.g.
5,9,27

Categories:

- Include categories
- Display post count for categories

Enter a comma-separated list of category IDs to exclude, e.g.
5,9,27

Tags:

- Include tags
- Display post count for tags
- Display as tag cloud

Enter a comma-separated list of tag IDs to exclude, e.g.
5,9,27

Archives:

- Include archives
- Display post count for archives

Posts:

- Include posts
- Display comment count for posts

Enter a comma-separated list of post IDs to exclude, e.g.
5,9,27

Enter a comma-separated list of category IDs to exclude, e.g.
5,9,27

Like This Plugin?

If you like this plugin, why not do any or all of the following:

- [Link to it so other people can find it.](#)
- [Give it a 5-star rating on WordPress.](#)
- [Show your appreciation by making a donation.](#)

Make A Donation!

Building and maintaining this plugin has cost me countless hours of work. If you like it, why not donate a token of your appreciation!

Donate

Need Support?

If you have any problems with this plugin or ideas for improvements or new features, please post about them on the WordPress support forums or the plugin's homepage.

Styling Issues?

The sitemap is displayed using your theme's own default styles, so it should blend seamlessly into the rest of your site.

If you're unhappy with the way your theme is displaying the sitemap, however, you can find tips on tweaking its formatting on the plugin's homepage.

Save Settings Restore Defaults

Thank you for creating with WordPress. | Documentation | Feedback

Version 3.1.3

How it works...

This plugin works by tapping into the power of WordPress shortcodes. When this plugin is installed and activated, it allows you to use the shortcode wherever you see fit. In this example, we placed the shortcode in a dedicated page, but you could put it inside any content area, or even into a dedicated template.

Unlike some other plugins that rely on shortcodes, there are no parameters for you to configure manually. Instead, all configuration is done through the HTML Sitemap configuration settings, discussed above.

Creating a better tag cloud

The default installation of WordPress comes with a simple tag cloud widget. The standard widget has virtually no configuration options. If you wish to have a tag cloud with more functionality, or even simply more options for styling and presentation, then you will need to explore other options. Fortunately there are a couple of tag cloud plugins. Our favorite is Ultimate Tag Cloud, which is the subject of this recipe.

The following screenshots show you the default tag cloud (at top) contrasted with the output of the Ultimate Tag Cloud plugin (at bottom):



Getting ready

To execute this recipe, you will need to install the **Ultimate Tag Cloud** plugin. You will need to install this plugin before you can get started. Search for **Ultimate Tag Cloud** inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.



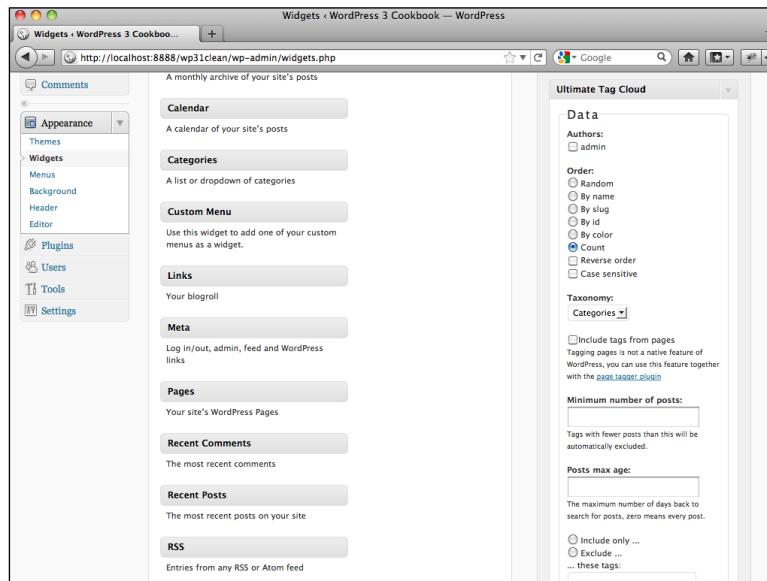
You can learn more about the plugin by visiting the developer's website at <http://www.0x539.se/wordpress/ultimate-tag-cloud-widget/>



How to do it...

There's a bit of configuration needed for the plugin to work properly:

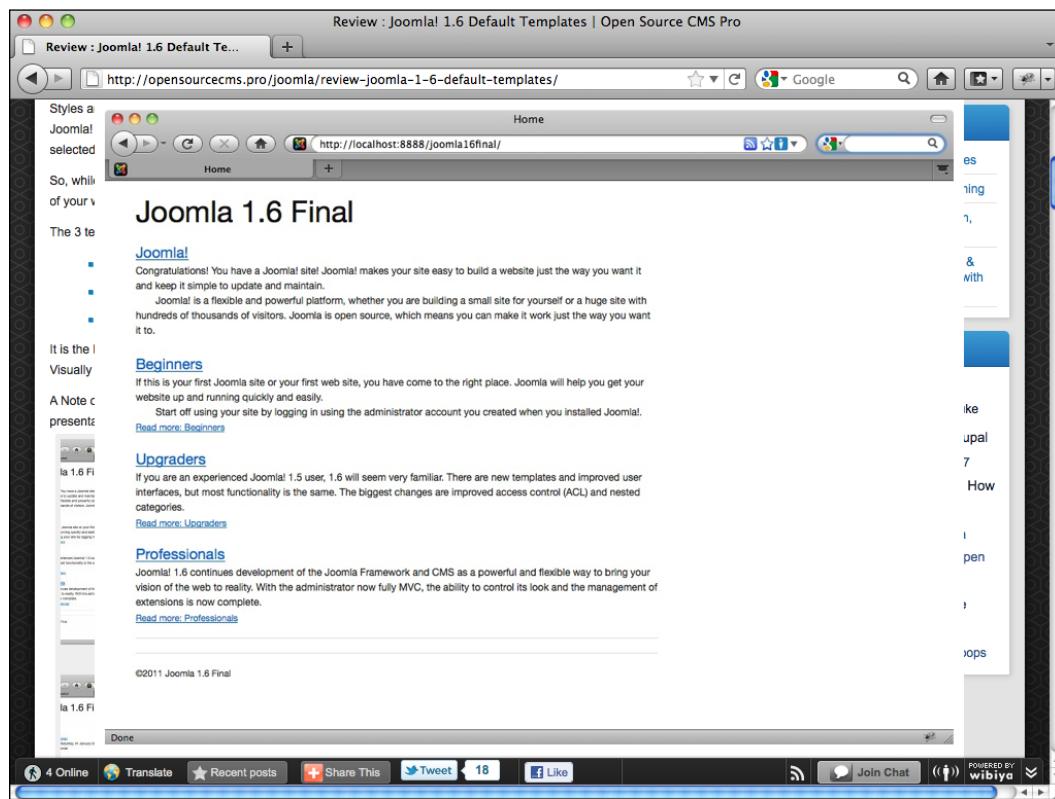
1. Log in to your WordPress **Dashboard**.
2. Click on the **Appearance** menu.
3. Click on the **Widgets** option.
4. Find the **Ultimate Tag Cloud** widget and drag it to the widget area where you want it to appear.
5. Click to open the options for the widget.
6. Set the Data options of the widget to determine where the tag info comes from. The following screenshot shows you part of the widget settings:



7. Set the **Appearance** options of the widget to suit your site.
8. Click on the **Save** button.

Adding lightboxes for your photos

Lightboxes are a common feature of many sites you visit these days. A lightbox works like a pop-up. It typically opens on top of the underlying page and occupies all or almost all of the screen space. When you close the pop-up, the original page is still available in the background. You can see a lightbox in action in the following screenshot:



There are several good reasons for the popularity of lightboxes. First, for site visitors, lightboxes tend to enhance visibility by decreasing page reloads and by providing a positive aesthetic experience. For site owners, lightboxes are an easy way to implement slideshows and even forms.

In this recipe we look at how you can add lightbox functionality to your WordPress site.

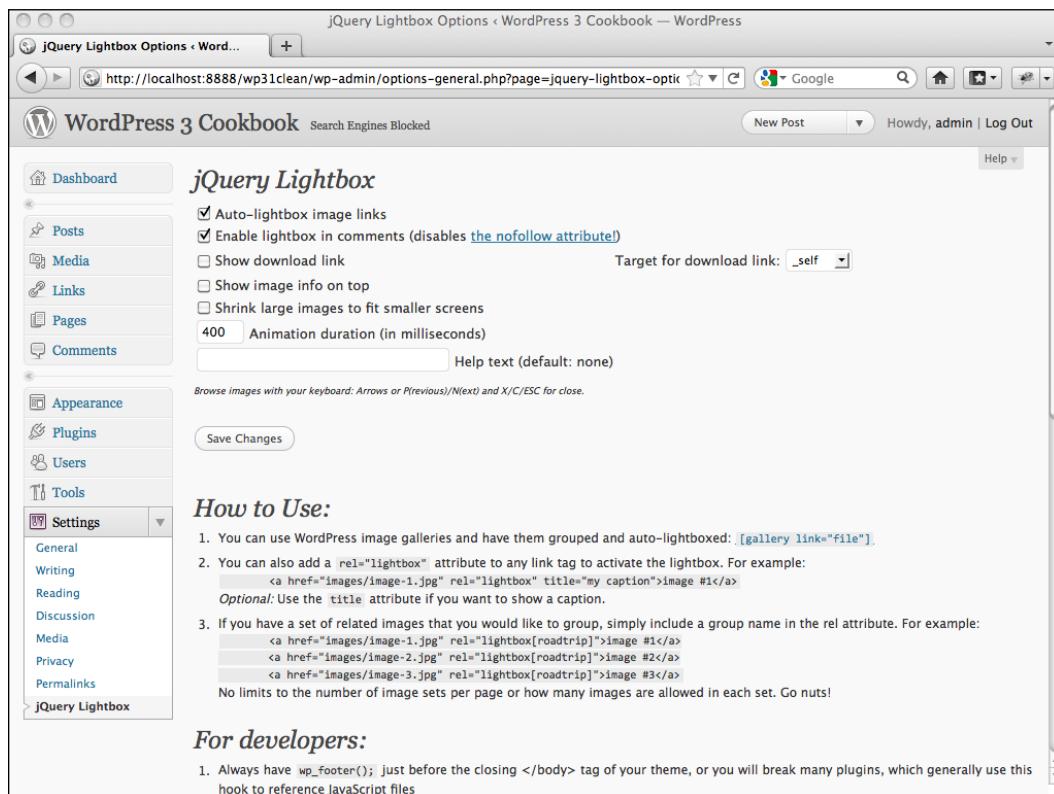
Getting ready

To execute this recipe, you will need to install the WP jQuery Lightbox plugin. You will need to install this plugin before you can get started. Search for "wp jquery lightbox" inside the **Add New Plugins** screen of your WordPress site. After you find it, click to install, and then activate it.

How to do it...

First you need to configure your lightboxes:

1. Log in to your WordPress dashboard.
2. Click on the **Settings** menu.
3. Click on the option **jQuery Lightbox**.
4. Select the configuration options shown in the following screenshot:



5. Click the **Save Changes** button.

Next, we need to enable the lightbox functionality for our images. To do that, follow these steps:

1. Click the **Posts** menu.
2. Find a post that contains images; if you don't have one, create one. Then click to edit the post.
3. To add the lightbox functionality to an image, you need to edit the image settings.
4. Switch to HTML view.
5. Add to the image link the attribute `rel="lightbox"`
6. Update the post.

Now, if you visit the post on the front end of the website and click on the image you modified, it should pop up in a lightbox.

There's more

The jQuery Lightbox plugin also supports several other useful features; one of the most useful is the creation of slideshows.

If you wish, you can group images together to create a slideshow that can be clicked through from within the lightbox. To group images for a slideshow, simply add to the link the `rel` attribute a common group name. For example, `rel="lightbox[groupname]"`.



It does not matter what group name you use, so long as it is used consistently on all the images you want to include in the show.



9

Managing Maintenance and Improving Security

In this chapter, we cover:

- ▶ Creating a manual backup of your database
- ▶ Creating an automatic backup with WP DB backup
- ▶ Restoring a MySQL backup
- ▶ Creating backups of your WordPress files
- ▶ Removing the WordPress version information from your theme files
- ▶ Getting rid of the administrator account
- ▶ Protecting against brute force login attempts
- ▶ Denying access to unneeded hints
- ▶ Adding another layer of protection with HTTP authentication
- ▶ Restricting access to the wp-admin directory by IP address
- ▶ Testing your site security
- ▶ Reducing SPAM by selectively blocking comment posting

Introduction

Creating and maintaining a secure website is an ongoing process. There is no one single thing you need to do, or even a definitive list of items, that will result in your site remaining secure from attack. Rather, site security is about being aware of your risk profile and taking steps to bring the risk down to acceptable levels. If your site contains user data or other sensitive, or valuable data, then you must do more than if your site is merely a single user blog.

In this chapter we go through a number of basic techniques that will harden your installation against the most common attacks and provide you with a fair degree of peace of mind. Some of the recipes are intended to block aggressors, others to simply deter them; still other recipes are aimed at decreasing SPAM on your site, as it is often used as a vector for attacks.

If you are serious about security, then the recipes in this chapter provide just a starting point. Making your WordPress installation secure is only part of the battle. If you want to increase your security significantly, then you must work with your server settings to make sure the server itself is less vulnerable. Server hardening is not covered in this chapter, as there are too many variables for us to anticipate.

Also not covered in this chapter, but worth mentioning, is the need to maintain a secure development environment and development process when you are building your site. Poor development practices often leave open avenues for later attacks. If you have inherited a site from another developer, you would do well to investigate whether you have inherited any potential problems as well.

Creating a manual backup of your database

If you remember only one recipe from this entire book, then this is the one! With WordPress, your site contents, comments, and parameters are all stored in a MySQL database. The database is the heart of your site and you don't want to run the risk that something might happen to it. Having backups of your database is not just important, it's essential.

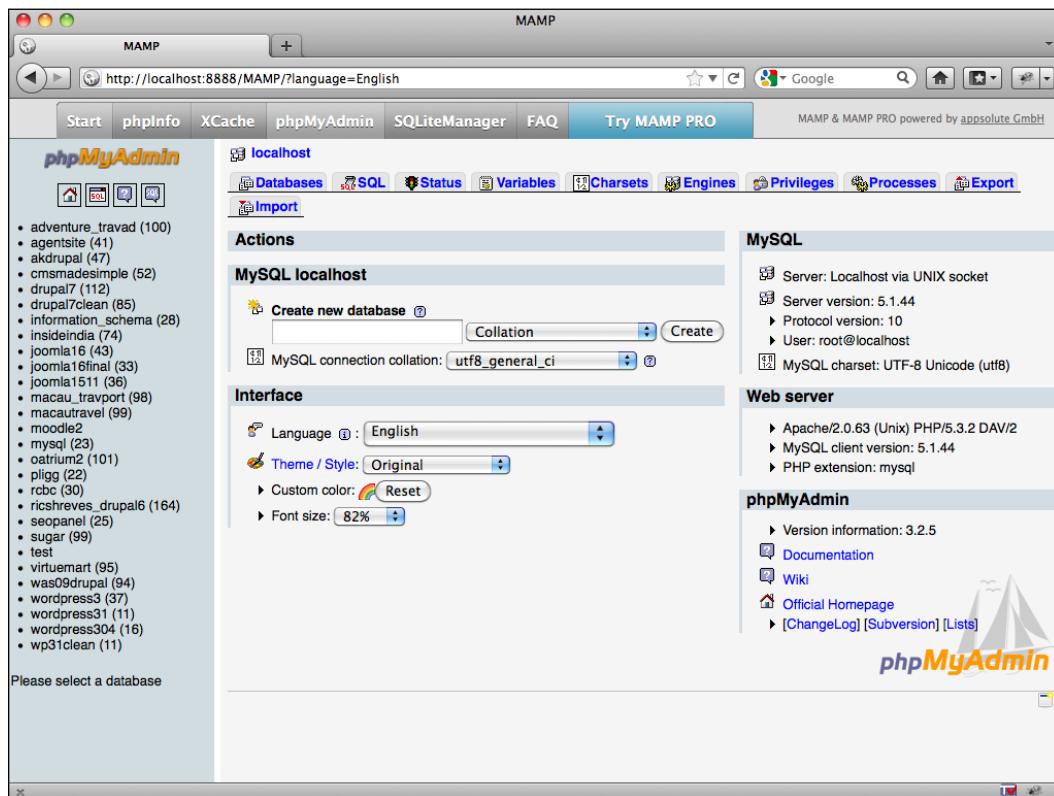
While all your site files are kept on the server, all of your WordPress data (posts, pages, categories, comments, and so on) are saved in your site's MySQL database. Without the database, the only thing you'll get is an empty theme. In this recipe, we're going to manually create a backup of your MySQL database using phpMyAdmin.

Getting ready

To complete this recipe, you must have phpMyAdmin installed on your web server. Typically this is not a problem; most web hosts have phpMyAdmin installed by default. Nonetheless, don't simply assume it is installed. Consult your hosting provider's documentation to see whether it is installed (and enabled) on your server.

How to do it...

1. Log in to your **phpMyAdmin** installation (the URL depends on how things are configured on your server. For most people you will access this through your web hosting control panel. If you don't know how to find it, then contact your web host's support team). The following screenshot shows the entry screen in a typical **phpMyAdmin** installation:



2. Select the database that is being used by your WordPress site.
3. Click on the **Export** tab on the horizontal menu near the top of the screen.
4. Next, scroll to the bottom of the page and select the option **Save as file**. If you wish, you can choose to compress the backup. **Gzipped** is a good option and widely compatible.
5. Click on the **Go** button. Wait a few seconds and your browser will ask you to download the backup. Keep it in a secure place, like a USB drive.



The export option is one of the numerous things that phpMyAdmin can do for you. Creating manual backups using the command line is easy as well, but most people will find it a bit more difficult than creating backups from within phpMyAdmin.

There's more...

If you're interested in having a plugin that can perform backups for you, and can even schedule automatic backups, then you should refer to the next recipe.

See also

- ▶ *Creating an automatic backup with WP DB Backup*
- ▶ *Creating backups of your WordPress files*

Creating an automatic backup with WP DB Backup

While the recipe above explains how to create a backup manually, you can set up automatic backups using a third-party plugin. The WP DB Backup plugin is one of several that offer the required functionality. This particular backup provides not only automated backup, but also several additional useful options, including the ability to schedule regular backups.

Getting ready

WP DB Backup is a third-party plugin. Accordingly, you must first install and enable this plugin on your WordPress site. Search for wp db backup inside the **Add New Plugins** screen of your WordPress site. After you find it, click on it to install, and then activate it.

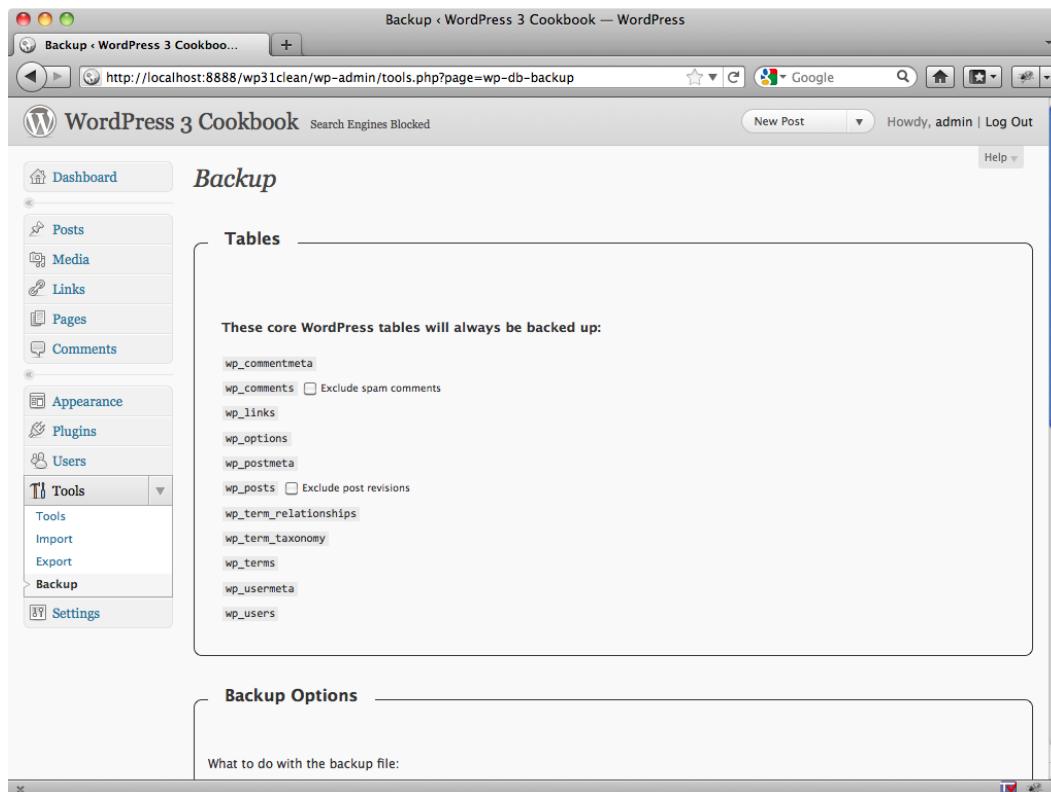


You can visit the plugin's home page by going to <http://austinmatzko.com/wordpress-plugins/wp-db-backup/>

How to do it...

1. Open the **Tools** menu from inside your WordPress **Dashboard**.

2. Select the option **Backup**. The WP DB **Backup** screen will load in your browser, as seen in the following screenshot:



3. Under the section **Backup Options**, select the option **Download to your computer**.
4. Click on the **Backup now!** button. You'll see a progress bar that indicates how the backup is proceeding. Don't refresh the page or click the **Back** button, as this will cause your backup to fail.
5. Your browser will ask you if you want to download the backup. Click on the **Yes** button and save the backup to your computer.

How it works...

While the popular phpMyAdmin web application allows you to create manual backups of any website, the WP DB Backup plugin goes further, letting you create a database backup without leaving your WordPress dashboard.

Using the cron functions of WordPress, WP DB Backup is also able to schedule automatic backups for you, which isn't possible with phpMyAdmin.

There's more...

While creating backups on demand is a cool option, it is even more secure to schedule automatic backups. WP DB Backup can easily do this. Use the **Scheduled Backup** section to create periodic updates – you can even have them automatically e-mailed to the address of your choice.

See also

- ▶ *Creating manual backups of your database*
- ▶ *Creating backups of your WordPress files*

Restoring a MySQL backup

Now that you know how to create a backup of your site database, you should also know how to restore it when needed. A restore can be done in whole or in part, but for this discussion we will assume that you are restoring the whole database.

Getting ready

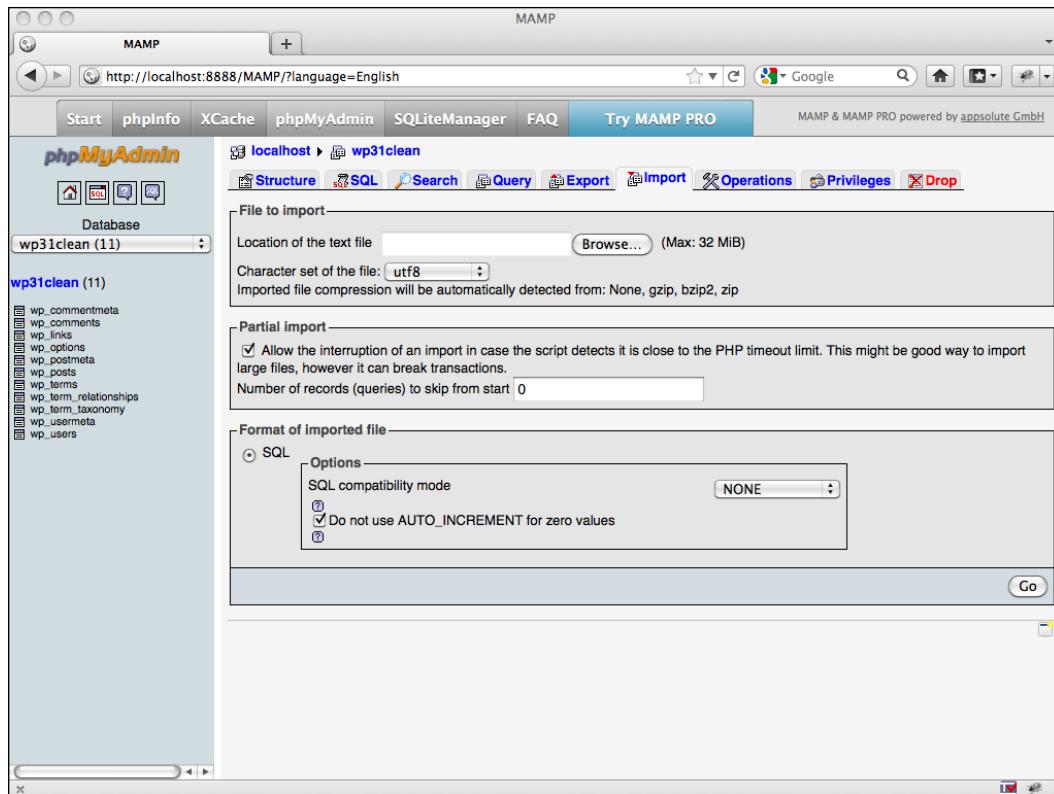
For this recipe, you need a backup of your site's database and access to the **phpMyAdmin** installation on your web server.



This is for emergencies only. If you want to test this process, then you should install WordPress locally and perform your tests on the local installation; don't test this out on a live production site!

How to do it...

1. Log in to **phpMyAdmin** and select your WordPress database.
2. Click on the **Import** tab from the horizontal menu near the top of the page. The following screenshot shows the **Import** screen:



3. Click on the **Browse** button and select the backup file on your hard drive.
4. Once done, scroll down the page and click on the **Execute** button.

The database backup is imported into your database and the existing data in the database has been replaced.

How it works...

When you import a MySQL backup with phpMyAdmin, your database is truncated (which means that the database becomes empty), and the previous data is replaced by the data contained in the backup. If changes have been made to the content of your site since your last backup, they will be lost. This is why you should create backups frequently. The more frequently you create backups, the less data you may lose.

Creating backups of your WordPress files

As we have seen earlier, having backups of your WordPress database is really important, but what about your files? Core files aren't really a problem because you can download them when you want from www.wordpress.org. However, when you're writing posts, you often upload pictures, and maybe even modify your theme; those files are not kept in the database, but rather in the directories on your server. Accordingly, we need to be able to make copies of those files as well in order to create a complete backup of your site.

Getting ready

This recipe is very easy to achieve. You will need an FTP program, access to your server, and some space on your hard drive or USB device to store the backup files.

How to do it...

1. Open your favorite FTP program, and connect to your site's web host.
2. Select all of your files, including the `.htaccess` file, and copy them into a directory on your local hard drive.

That's all there is to it! Now, if for some reason the WordPress files on your server are lost or corrupted, then you just have to open the directory, and copy anything from it to the root of your site's web host.

How it works...

There is really nothing hard here. In this recipe, you created a directory on your computer and then copied the files from your server to this directory, using an FTP program. The result is a backup of your files on your computer that can be used to replace your WordPress files, if any kind of problem occurs.

See also

- ▶ [Creating a manual backup of your database](#)
- ▶ [Creating an automatic backup with WP DB Backup](#)

Removing the WordPress version information from your theme files

By default, WordPress adds the Generator metatag to the header of your site's pages. The tag contains the WordPress version you're site is using. The problem is that, since this data is available to anyone who views the site's source, hackers who are looking for information about your site can learn what version of WordPress you're running. While that information alone is unlikely to present an opportunity for an attack on your site, it can make their job easier, and we want to block that.

Getting ready

To complete the recipe, you must access your WordPress installation, edit a file from your site, and then get it back on the server. To grab the file and replace it, you will need an FTP program or the file manager in your web hosting control panel. You can edit the file with either a web editing program or with a simple text editor.

How to do it...

1. Access your server and go to the directory that holds your theme files.
2. Open the `functions.php` file from inside your theme. If that file doesn't exist, then create it and save it inside your theme's directory.
3. Add the following code to the bottom of the `functions.php` file:

```
add_filter( 'the_generator', create_function('$a',  
"return null;"));
```
4. Save the file.

If you reload your site's home page and view the page source, you will find that the Generator metatag is no longer displayed.

How it works...

This meta tag is added by WordPress to help them gather data about the installations on the web. While the information may be useful to the WordPress team, it is absolutely unnecessary for you or your site. We can get rid of it without losing any functionality.

The reason you need to add a filter on `the_generator()` function is to avoid displaying your WordPress version. This is done by creating a basic function that returns null instead of the WordPress version.

Getting rid of the Administrator account

By default, all WordPress sites have an Administrator account. This account is automatically created when you install WordPress. If you have not changed the default value, the username is admin. The account has administrator rights, which means that someone logged in with the Administrator account can create other user accounts, change the WordPress password, and much more.

Hackers know that every WordPress site automatically creates an Administrator account, and if they want to try to break into a WordPress site, they will typically try to target the admin user account in an attempt to crack the password. A simple, but effective way to avoid being vulnerable to this sort of attack is to create a new administrator account to replace the default admin account and then delete the original account.

Getting ready

All of the steps necessary to complete this recipe can be completed from within the WordPress administration system.

How to do it...

1. Log in to your WordPress **Dashboard**.
2. Go to the **Users** page.
3. Click on the **Add new** button.
4. Enter the details for your new account. Select the role to be **Administrator**.
5. After you have created your new account, log out.
6. Log in again, this time using the new account you just created.
7. Go to the **Users** page.
8. Find the original **Admin** account, and delete it.

How it works...

This process is necessitated by the fact that usernames in WordPress cannot be changed. Therefore, we must use our existing **Admin** account to create another account, give it Administrator rights, and then delete the original account.

See also

- ▶ *Testing your site security*

Protecting against brute force log in attempts

In the previous recipe, we covered deleting the default admin account. By deleting the admin account, you have taken one more potential avenue of attack away from hackers. However, hackers are typically smart (and persistent!) and are likely to also try other logins.

The method of attack generally involved isolating a potential username, then trying one password after another until they are successful. This type of attack is called a **brute force attack**. This recipe shows you how to install and configure a third-party plugin to help protect against this common attack vector.

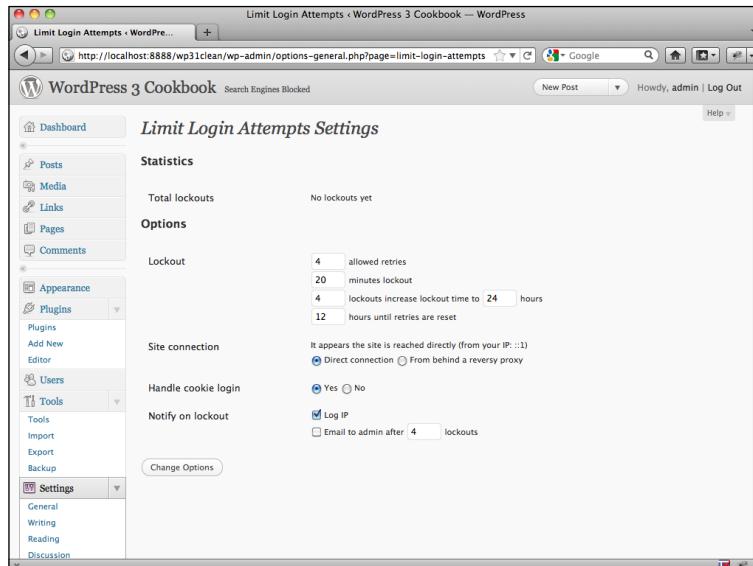
Getting ready

The recipe relies on the Limit Login Attempts plugin. You will need to install and enable the plugin, as described in *Chapter 3, Working with Plugins and Widgets*.

How to do it...

To configure Limit Login Attempts to protect your site, follow these steps:

1. Log in to the your WordPress **Dashboard**.
2. Under the **Settings** menu, click on the option **Limit Login Attempts**. The **Limit Login Attempts** configuration page is shown in the following screenshot:



3. Set the options you wish. Fewer **allowed retries** and longer values for the **minutes lockout** field are more secure.
4. Click on **Change Options**.

How it works...

A brute force attack is a method for attempting to defeat a cryptographic scheme by systematically trying a large number of possibilities. When someone attempts this on your site, the plugin in this recipe will record the IP address and timestamp of every failed login attempt. If more than a certain number of attempts are detected within a short period of time from the same IP range, then the login function is disabled for all of the requests from that range. This helps in preventing brute force password discovery.

See also

- ▶ [Adding another layer of protection with HTTP authentication](#)
- ▶ [Restricting access to the wp-admin directory by IP address](#)

Denying access to unneeded hints

Sometimes WordPress can be a bit more helpful than you might want. One example is the system's error messages on failed logins. By default, if a login fails, the system will tell the user whether the problem lies with the username they entered or if it was the password. While this is helpful to your users, it is also very helpful to anyone trying to hack into your account by compromising a user account. With the default error messages in place, the hacker will learn whether they need to concentrate their efforts on cracking the username or the password.

In this recipe we show you how to block this unwanted hint and replace it with a generic error message.

Getting ready

This recipe works with the `user.php` file, so you will need access to your WordPress installation on your server and the ability to edit this file type.

How to do it...

1. Access your WordPress installation on the server.
2. Find the `user.php` file.

3. First, find the following line of code:

```
if ( !$userdata )
    return new WP_Error('invalid_username',
        sprintf(__('<strong>ERROR</strong>: Invalid username.
        <a href="%s" title="Password Lost and Found">Lost
        your password</a>?'),
        site_url('wp-login.php?action=lostpassword',
        'login')));
```

4. Edit the line as follows:

```
if ( !$userdata )
    return new WP_Error('invalid_username',
        sprintf(__('<strong>ERROR</strong>: Please try again.
        <a href="%s" title="Password Lost and Found">Lost your
        password</a>?'),
        ('wp-login.php?action=lostpassword', 'login')));
```

5. Next, find the following line of code:

```
if ( !wp_check_password($password, $userdata->user_pass,
    $userdata->ID) )
    return new WP_Error( 'incorrect_password', sprintf
        ( __('<strong>ERROR</strong>: The password you entered for
            the username <strong>%1$s</strong> is incorrect.
            <a href="%2$s" title="Password Lost and Found">Lost your
            password</a>?' ),
        $username, site_url( 'wp-login.php?action=lostpassword',
        'login' ) ) );
```

6. Edit the line as follows:

```
if ( !wp_check_password($password, $userdata->user_pass,
    $userdata->ID) )
    return new WP_Error( 'incorrect_password', sprintf( __(
        '<strong>ERROR</strong>: Please try again. <a href="%2$s"
            title="Password Lost and Found">Lost your password</a>?'
    ),
        $username, site_url( 'wp-login.php?action=lostpassword',
        'login' ) ) );
```

7. Save the file.

How it works...

This technique simply changes the warning text of the two error messages to strip out the specific instructions that can aid a hacker. We've removed the hints and replaced them with a generic message (Please try again.).

Adding another layer of protection with HTTP authentication

When it comes to blocking brute force attacks, two layers of protection are better than one. In this recipe, we look at how to add another barrier to brute force attacks by using a third-party plugin named AskApache Password Protection.

The plugin makes it easy for you to set up HTTP authentication on your WordPress site. HTTP authentication is one of the most effective methods for protecting your site against brute force attacks, though it does add a bit of inconvenience for you as well; with HTTP authentication in place, you have to log in twice before you can access the WordPress Dashboard.

Getting ready

The recipe relies on the AskApache Password Protect plugin. You will need to install and enable the plugin, as described in *Chapter 3, Working with Plugins and Widgets*.



You can learn more by visiting the plugin's homepage at <http://www.askapache.com/wordpress/htaccess-password-protect.html>

How to do it...

1. Once the plugin is installed and enabled, log in to your WordPress **Dashboard**.
2. Go to **Settings | AA PassPro**.
3. If this is your first visit to this page, you will need to go through verification to make sure that the plugin will work with your server. The verification process is handled automatically by the plugin; you simply need to click on the button at the bottom of the page. Once you have completed verification, then you can move on to set up the plugin. The setup page for the plugin is shown in the following screenshot:

Setup Password Protection

Create User

Admin Email: admin@yoursite.com
Username and Password sent here in case you forget it.

Username: notyourbasicadmin

Password (twice):

Authentication Scheme

Choose Scheme:

- Digest — Much better than Basic, MD5 crypto hashing with nonce's to prevent cryptanalysis.
- Basic — Cleartext authentication using a user-ID and a password for each authname.

This is the mechanism by which your credentials are authenticated (Digest is [strongly preferred](#))

Authentication Settings

Password File Location: /Applications/MAMP/htdocs/.htpasswd3
Use a location inaccessible from a web-browser if possible. Do not put it in the directory that it protects.

Realm Name: Protected By AskApache
The authname or "Realm" serves two major functions. Part of the password dialog box. Second, it is used by the client to determine what password to send for a given authenticated area.

Protection Space Domains: /wp-admin/
One or more URIs in the same protection space (i.e. use the same authname and username/password info). The URIs may be either absolute or relative URLs. Omitting causes client to send Authorization header for every request.

Encryption Preferences

Password File Algorithm:

- CRYPT — Unix only. Uses the traditional Unix crypt(3) function with a randomly-generated 32-bit salt (only 12 bits used) and the first 8 characters of the password.
- MD5 — Apache-specific algorithm using an iterated (1,000 times) MD5 Digest of various combinations of a random 32-bit salt and the password.
- SHA1 — Base64-encoded SHA-1 Digest of the password.

Note I do not store or save your password anywhere, so you will need to type it in each time you update this page.. for now.

Save Settings >

4. On the setup page, define your password settings. Pick a **Username**, a **Password**, and a message to be displayed on the authentication pop-up. The **Username** and **Password** have nothing to do with WordPress so they don't need to match your WordPress login ID and password.
5. Once done, click on the **Save Settings** button.

6. On the next screen, you can manage security modules. A security module is basically a piece of code dedicated to performing a particular action inserted in your .htaccess file. Use of the modules is optional, but can increase the security on your site. You may want to consider enabling at least the following modules: Password Protect wp-login.php; Password Protect wp-admin; BAD Content Type; Stop Hotlinking.

How it works...

Once activated and configured, the AskApache plugin generates a server-side password verification using the WordPress .htaccess file. When someone tries to access the wp-login.php page, a pop-up window created by the server will be launched. The user must input the proper username and password to proceed. With no password, the person attempting to view the wp-login.php file will not be able to see it. Note that while this same protection can be implemented manually, the AskApache Password Protection plugin does simplify implementation plus give you additional options with the security modules, making it a good choice for most site owners.

See also

- ▶ *Protecting against brute force login attempts*
- ▶ *Restricting access to the wp-admin directory by IP address*

Restricting access to the wp-admin directory by using the IP address

A very radical, but effective, solution to protect your wp-admin directory from brute force attacks, as well as any kind of intrusion, is to restrict access to this directory to a single IP address—yours.

Getting ready

Before applying this recipe, you need to make sure that you're using a static IP address. To do so, ask your **Internet Service Provider (ISP)**. This recipe can't be achieved if you're using dynamic IP addresses.

How to do it...

1. The first thing to do is to find out your IP address. There are many ways to obtain it, but the simplest is to go to <http://whatsmyip.org>. When you visit the site, your IP address will be displayed on the page; make a note of it.

2. Next, create a file named `.htaccess` on your computer and enter the following lines in it. Do not edit the `.htaccess` file located at the root of your WordPress install.

```
AuthUserFile /dev/null
AuthGroupFile /dev/null
AuthName "Example Access Control"
AuthType Basic
<LIMIT GET>
order deny,allow
deny from all
allow from xx.xx.xx.xx
</LIMIT>
```

On the next to last line of the preceding code, replace `xx.xx.xx.xx` with the IP address that you wish to allow access to the `wp-admin` directory.

3. Save the `.htaccess` file on the `wp-admin` directory of your WordPress site.

How it works...

In this recipe, we have used the authentication functionalities of the Apache web server to restrict access to the `wp-admin` directory to a specific IP address. Any IP address that isn't listed in the `.htaccess` file, will only see a **403 Forbidden** error.

There's more...

In the steps above, we have shown you how to restrict the `wp-admin` directory to a single IP address. However, in the case of a multiauthor site, or if you need to access the admin system from multiple locations, you may need to authorize more than just one IP address.

Allowing access to more than one IP

Use the following syntax in the `.htaccess` file (one IP address per line) to authorize multiple IP addresses:

```
AuthUserFile /dev/null
AuthGroupFile /dev/null
AuthName "Example Access Control"
AuthType Basic
<LIMIT GET>
order deny,allow
deny from all
allow from xx.xx.xx.xx
allow from xx.xx.xxxx.xx
allow from xx.xx.xxxx.xx
allow from xx.xx.xxxx.xx
</LIMIT>
```

See also

- ▶ *Protecting against brute force login attempts*
- ▶ *Adding another layer of protection with HTTP authentication*

Testing your site security

One of the more challenging aspects of site security is identifying potential security risks. Luckily, there are tools to help you in the quest for a secure site. In this recipe, we're going to show you how to use the WP Security Scan plugin to scan your site, get a listing of security problems, and fix them.

Getting ready

The recipe relies on the WP Security Scan plugin. You will need to install and enable the plugin, as described in *Chapter 3, Working with Plugins and Widgets*.

Before you begin making any modifications with the plugin, create a backup of both your database and files, as described earlier in this chapter.

How to do it...

Once installed, the plugin will analyze the following:

- ▶ passwords
- ▶ file permissions
- ▶ database security
- ▶ version hiding
- ▶ WordPress admin protection and security
- ▶ WP Generator META tag

The plugin will provide recommendations for settings of each of the items above and, in some cases, allow you to implement the changes directly from within the plugin's dashboard.

After installation, the plugin adds a new option to your WordPress dashboard. To access the plugin's functionality, click on the tab labeled **Security**. This tab contains a submenu composed of the following five items:

- 1. Security:** Click on this option to gain an overview of security-related information about your site and your server configuration, as you can see in the next screenshot. It also provides a particularly interesting tool, which is the database prefix switcher. If your tables' prefixes are the default `wp_`, then you'll see a prompt asking if you'd like to change your database prefix. (Having `wp_` as a prefix is a potential security risk, because many people use it. Therefore, this will be the first thing a hacker will try in order to hijack your site.) The **Security** tab will also let you know whether the WordPress version is visible and if so, will allow you to hide it. The plugin will check for an `.htaccess` file in your `wp-admin` directory and will also verify whether an **Admin** account exists.

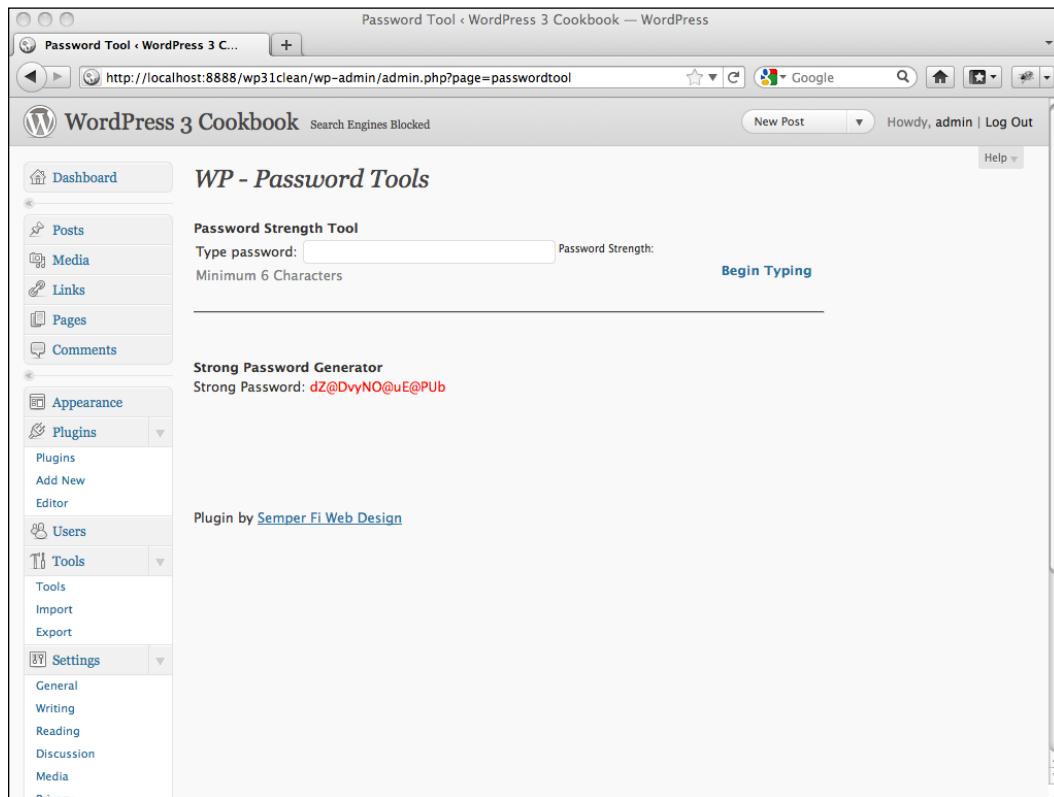
The screenshot shows the WordPress 3 Cookbook dashboard with the "WP - Security Admin Tools" page selected. The left sidebar includes links for Posts, Media, Links, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, General, Writing, Reading, Discussion, Media, and Plugins. The main content area displays several sections: "Initial Scan" (noting WordPress 3.1.2 is the latest stable version), "System Information Scan" (listing details like Operating System: Darwin, Server: Apache/2.0.63 (Unix) PHP/5.3.2 DAV/2, and PHP Version: 5.3.2), "Future Releases" (mentioning one-click file/folder permissions, XSS detection/prevention, lockout, user enumeration, and admin protection), "PageLines WordPress Themes" (advertising PageLines themes), and "Donations" (listing highest donations from James Zolman, Gary Greco, and Troy May). The top navigation bar shows "Howdy, admin | Log Out".

2. **Scanner:** The second option on the **Security** menu is labeled **Scanner**. The scanner feature automatically reviews your site file permissions to ensure that they are secure, as shown in the next screenshot. If one of your directories has greater access permissions than needed, it will appear in red. If any entries appear in red, you should change to the permissions indicated in the **Needed Chmod** column; this cannot be done from within the plugin, but can be done with most FTP programs.

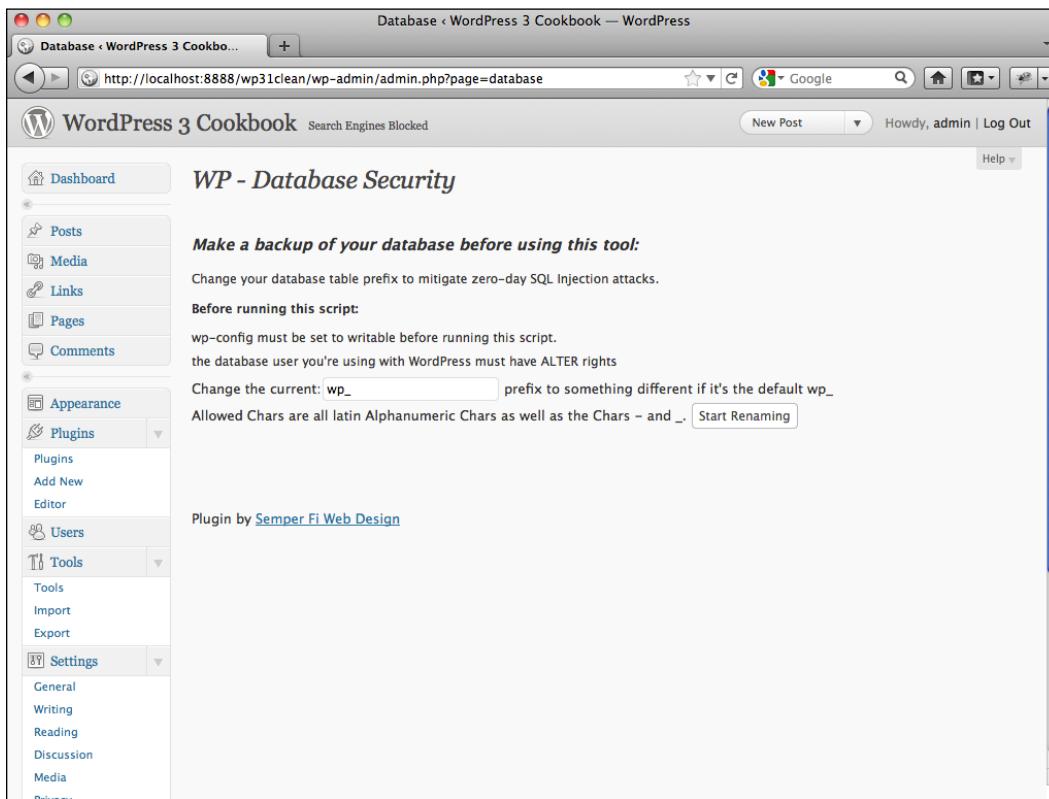
The screenshot shows the WordPress 3 Cookbook dashboard with the 'Scanner' plugin active. The main content area is titled 'WP - Security Scan' and displays a table of file and directory permissions. The table has four columns: 'Name', 'File/Dir', 'Needed Chmod', and 'Current Chmod'. Most entries have a 'Needed Chmod' of 0755 and a 'Current Chmod' of 755, indicating they are secure. However, several entries show a difference: '.htaccess' needs 0644 but has 644; 'index.php' needs 0644 but has 644; 'js/' needs 0755 but has 755; and 'wp-content/themes/' needs 0755 but has 755. These discrepancies are highlighted in red, indicating they require attention. The left sidebar shows standard WordPress navigation links like Posts, Media, Links, Pages, Comments, Appearance, Plugins, Users, Tools, and Settings.

Name	File/Dir	Needed Chmod	Current Chmod
root directory	.. /	0755	755.
wp-includes/	.. /wp-includes	0755	755.
.htaccess	.. /htaccess	0644	644.
wp-admin/index.php	index.php	0644	644.
wp-admin/js/	js /	0755	755.
wp-content/themes/	.. /wp-content/themes	0755	755.
wp-content/plugins/	.. /wp-content/plugins	0755	755.
wp-admin/	.. /wp-admin	0755	755.
wp-content/	.. /wp-content	0755	755.

3. **Password Tool:** The **Password Tool** option provides both a utility to test the strength of your password and a password generator that can create a very strong password to help keep your user account secure. To test a password, just enter it in the **Type password** field and the utility will tell you if it's weak, average, or strong. It is best to use a strong password. To save you a bit of time, the utility also suggests a strong password for you, as you can see in the following screenshot:



4. **Database:** As noted earlier, having the default `wp_` table prefix is a potential security risk. While you can remedy this by renaming your tables using **phpMyAdmin**, WP Security Scan can do the job faster and easier. Before you begin, however, back up your database and make sure your `wp-config.php` file is writable. Once you've completed your backup and made sure the file is writable, access the **Database** option under the **Security** menu. On the image that appears, designate a new prefix and then click the **Start Renaming** button. After a short bit of time, your tables will be renamed with the selected prefix. The following screenshot shows the **Database** option dashboard:



5. **Support:** As you can expect, the **Support** tab contains links to the plugin documentation and change log.

How it works...

The WP Security Scan plugin offers an easy-to-use way to identify potential security vulnerabilities and then take steps to remedy them. While it addresses many common issues and is extremely helpful to novice users, more experienced users and those who are very security conscious will want to do more. The options given in this chapter provide further guidance to harden your WordPress installation.

See also

- ▶ *Getting rid of the administrator account*

Reducing SPAM by selectively blocking comment posting

Comment spam is not only a nuisance for site owners, but also a potential vector for malware. While the Akismet plugin included in the WordPress core is very good at helping to identify spam, it does require some management time to process the potential spam comments in the Akismet queue. Ideally, it would be better to prevent the spam submissions in the first place.

One of the most common characteristics of spam comments is the posting of links in the comment that do not point back to the domain the request came from. Most spammers don't personally go to your site to post their spam comments; instead, they use a dedicated script or software to post the comments. As a result, the comment will come from a script instead of from your site's comment form. In this recipe, we'll show you how to block comment postings that lack a valid referrer request from your site.

Getting ready

In the next section, we show you two different methods for implementing this recipe. In the first approach, we modify the `.htaccess` file. In the second approach, we use a snippet of `php` code placed in the `functions.php` file.

In both techniques, you will need access to the relevant files on your server and the ability to edit those files.

How to do it...

There are two different ways to implement this recipe. The first method modifies the `.htaccess` file and rewrites rules, while the second uses `php`. Both methods work in a similar fashion and you can pick whichever you prefer.

To implement the `.htaccess` method, follow these steps:

1. Access your WordPress installation on the server.
2. Find the `.htaccess` file, which is located in the root of your WordPress install. Back up the file, just in case anything goes wrong.
3. Open the original file and insert the following code:

```
RewriteEngine On
RewriteCond %{REQUEST_METHOD} POST
RewriteCond %{REQUEST_URI} .wp-comments-post\.php*
RewriteCond %{HTTP_REFERER} !.*yoursite.com.* [OR]
RewriteCond %{HTTP_USER_AGENT} ^$ 
RewriteRule (.*) ^http://\{REMOTE_ADDR\}/\$ [R=301,L]
```

4. Replace `yoursite.com`, on line 4 above, with your site's URL.
5. Save the file.

Another alternative is to use php. To use this approach, follow these steps:

1. Access the server where your WordPress installation is located and find the `functions.php` file.
2. Add the following piece of code to that file:

```
function check_referrer()
{
    if (!isset($_SERVER['HTTP_REFERER']) || 
        $_SERVER['HTTP_REFERER'] == "") 
    {
        wp_die( __('Please enable referrers in your browser,
or,
        if you\'re a spammer, bugger off!') );
    }
}

add_action('check_comment_flood', 'check_referrer');
```

3. Save the `functions.php` file.

How it works...

The hack consists of looking up the comment's referrer (the page from where the comment posting request comes). If the referrer doesn't exist, then it means that the request didn't come directly from your site and is likely from a script. The user is then redirected and blocked from posting.

Index

Symbols

\$post() function **115**
\$post variable **118**
\$wpdb object **115**
@font-face
 using **42, 43**
_generator() function **287**
.gif file **44**
<h1> tag **48**
<hgroup> tag **66**
.htaccess file **286, 294, 295, 301**
.htaccess method
 implementing **302**
.ico file format **44**
** tag** **121**
.jpg file **44**
.png file **44**
</urlset> tag **237**

A

access
 allowing, for multiple IPs **295**
 denying, to unneeded hints **290, 291**
 restricting, to wp-admin directory by IP
 address **294**
Activate link **34**
Add New Plugins screen **27, 67, 92, 130, 139, 277**
add_shortcode() function **126**
add_shortcodes() function **126**
Add to Cart buttons **214**
ad manager
 new Ad Zone, creating **212**
 used, for advertising space management
 207-211

working **212**
Admin Bar **29**
Administrator account
 removing **288**
administrators
 toolbar, enabling **29, 30**
admin_note() function **130**
Adsense
 about **188**
 integrating **188-191**
 integrating, manually **192**
 integrating, quicktags used **191, 192**
 working **191**
Advertise page
 enhancing, by adding Paypal subscriptions
 206, 207
 enhancing, steps **206**
advertising space
 managing, ad manager used **207-211**
Akismet API key **257**
Akismet plugin
 about **256, 301**
 working **258**
All Related Posts plugin **267**
AskApache Password Protection plugin
 about **292**
 URL, for homepage **292**
author list
 about **166**
 displaying **166, 167**
 working **168**
 wp_list_authors() function **168**
author parameter **270**
author-related information
 displaying, on posts **160, 162**

author's avatar
displaying, posts 163
working 164

automatic backup
creating, with WP DB Backup plugin 282, 283

B

backups
creating, for WordPress files 286

Bing
Webmaster Tools, using 237

Bing's webmaster tools
using 237-239

bloginfo() function 44

breadcrumbs
used, for navigation extension 252, 253

breadcrumbs_plus () function 254

Breadcrumbs Plus plugin
about 253
arguments 254, 255
values 255
working 254

breadcrumb trial 253

brute force attack 289

BuddyPress
used, for creating community 169-173
working 173

built-in Plugin Editor
plugin files, modifying 13, 14

built-in Theme Editor
theme files, modifying 10-12

C

cache management
used, for performance optimization 258-261

catlink parameter 271

child theme
about 36
creating 36, 37
functionality, customizing 38
style, customizing 38
working 37

class parameter 271

click through rates (CTR)s 194

commentators, rewarding
Top Commentators widget used 158-160

comments
posting, Subscribe to Comments Reloaded
plugin used 155, 156

comments_open() function 55

comment spam 301

comments parameter 271

community
about 134
creating, BuddyPress used 169-173

conditional tags
comments_open() function 55
has_tag() 96
has_tag("wordpress") function 55
has_tag("WordPress") function 55
in_category() 96
is_404() function 55
is_admin() function 55
is_archive() function 55
is_author() 96
is__author() function 55
is_category() 96
is_category('4') function 55
is_category() functionis_category() function, conditional tags 55
is__date()f unction 55
is_day() function 55
is_front_page() 96
is_front_page() function 55
is_home() function 55
is__month() function 55
is_page() 96
is_paged() function 55
is_page() function 55
is_page_template() 96
is_page_template(about.php) 55
is_search() function 55
is_single() 96
is_single() function 55
is_sticky() 96
is_sticky()function 55
is_tag() 96
is_tag() function 55
is_time() function 55
is__year() function 55
pings_open() function 55
special parameters 54
special parameters, Array 54

special parameters, ID 54
special parameters, Name 54
using, for content display control 52
using, to control widget display 94, 95
widget content filter, using 96, 97
working 53, 54

configuration, Limit Login Attempts plugin 289

Configure button 28

content
exporting 24-26
importing 24-26

content parameter 271

core widgets
modifying 85-89
working 90, 91

cron functions 283

custom 404 error page
about 63
creating 63, 64
working 64

custom logo
about 45
adding 45, 47
starting with 45
working 48

custom styles
adding, to theme 66, 67

D

database
manual backup, creating 280-282

date and time parameters, within query_posts()
day 110
hour 110
minute 110
monthnum 110
second 110
year 110

dateformat parameter 270

date parameter 270

Deactivate button 28

Delete Duplicate Posts plugin 230

Disable widgets on main dashboard page 204

div tag 125

Download Export File button 25

duplicate content
avoiding, with robots.txt file 229, 230
removing, plugin used 230, 231

dynamic_sidebar() function 81

E

editorial workflow
about 21
Editorial Comments field 23
Editorial Metadata fields 23
Notifications Subscriptions section 23
setting up 21
working 22, 23

Enable / Disable Dashboard Widgets 204

excerpt parameter 270

excludeposts parameter 270

F

Facebook functionality access
enabling, to site 178-180
working 180

favicon
about 43
creating 43
integrating 43
working 44

Featured Posts block
about 268
creating 268
List Category Posts plugin, using 268

Feedburner
integrating, into site 150, 151
integrating, manual steps 151, 152
working 152

form() function 85

forum
integrating, into site 139-142
moderators 143
plugin, configuring 139
skins 143
usergroups 144
working 143

FTP program 286

functions.php file 60, 61

G

Generator metatag 287

get_permalink() function 118

get_post() function

using 115

get_post_meta() function 121

Google

Webmaster Tools, using 237

Google's webmaster tools

Diagnostics 241

Labs 241

site configuration 240

using 237, 238

working 239, 240

H

hack 302

hackers 288

has_tag(), conditional tag 96

has_tag() function 55

homepage

static page, using 64, 65

thumbnails, displaying 119-121

h tags structure

using 243

HTML editor 99

HTML Sitemap Generator plugin

about 272

working 274

HTTP authentication

about 292

setting up, on WordPress site 292-294

I

id parameter 270

Import tool

content importing, steps 24

in_category(), conditional tag 96

in_category() function 55

installing

Jetpack 27, 28

plugins 72

themes 32-35

themes manually 35

widgets 78, 79

Install link 34

interactivity 134

Internet Service Provider (ISP) 294

is_404() function 55

is_admin() function 55

is_archive() function 55

is_author(), conditional tag 96

is_author() function 55

is_author() tag 54

is_category(), conditional tag 96

is_category() function 55

is_category tag 54

is_date() function 55

is_day() function 55

is_front_page(), conditional tag 96

is_front_page() function 55

is_home() function 55

is_month() function 55

is_page(), conditional tag 96

is_paged() function 55

is_page() function 55

is_page() tag 54

is_page_template(), conditional tag 96

is_page_template function 55

is_preview() function 55

is_search() function 55

is_single(), conditional tag 96

is_single() function 55

is_single() tag 54

is_sticky(), conditional tag 96

is_sticky() function 55

is_sticky () tag 54

is_sticky() tag 54

is_tag(), conditional tag 96

is_tag() function 55

is_time() function 55

is_year() function 55

is_year() tag 53

J

Jetpack

about 26, 27

installing 27, 28

modules 26

- using 27, 28
working 29
- jQuery Lightbox plugin 278**
- L**
- lightboxes**
configuring 277, 278
photos, adding 276
WP jQuery Lightbox plugin, adding 277
- Limit Login Attempts plugin**
configuring 289
- List Category Posts plugin**
about 268
author parameter 270
catlink parameter 271
class parameter 271
comments parameter 271
content parameter 271
date parameter 270
deformed parameter 270
excerpt parameter 270
excludepost parameter 270
id parameter 270
name parameter 270
number posts parameter 270
offset parameter 270
orderby parameter 270
order parameter 270
post_parent parameter 271
post_type parameter 271
tags parameter 270
template parameter 270
thumbnails parameter 271
working 269
- login form**
about 262
displaying 263, 264
- login page**
about 48
customizing 48-50
functions, customizing 51, 52
plugin's module, enabling 51
working 51
- M**
- manual backup**
creating, for database 280-282
- media files**
managing, Media Library used 6-10
- Media Library**
media files editing, steps 9
media files, managing 6-10
- meta descriptions**
about 226
creating, for posts 227, 228
working 227, 228
- metamod directory 88**
- meta tag 287**
- moderators 143**
- monthnum parameter 109**
- multi-author WordPress blog**
author-related information, displaying on
posts 161
- multiple authors**
allowing, on posts 164, 165
working 165
- multiple IPs**
access, allowing for 295
- multiple loops**
about 112
using 113
working 114
- multiple page templates**
about 56
creating 56
functionality adding, template tags used 58
using 56, 57
working 57
- MySQL**
backup, restoring 284, 285
- MySQL backup**
restoring 284, 285
- MySQL database 280**
- N**
- name parameter 270**
- navigation**
extending, breadcrumbs used 252, 253
improving, paginator used 134, 136

New Ads Place screen **208**

nofollow attribute
removing, for comments posting by users
156-158

numberposts parameter **270**

O

offset parameter **270**

orderby parameter **270**

order parameter **270**

own widget
creating 82-84
working 85

P

pages
tags, adding to 130
tags, working 131

paginator
using, for navigation improvement 134, 136
working 137

parameters, wp_list_authors() function
echo 168
exclude_admin 168
feed 168
feed_image 168
feed_type 168
hide_empty 168
html 168
number 168
optioncount 168
order 168
orderby 168
show_fullname 168
style 168

Password Tool option **299**

Paypal subscriptions
adding, for Advertise page enhancement
206, 207

performance
optimizing, cache management used 258-
261

Permalink Finder plugin
working 226

permalinks
accessing 118

get_permalink() function, working 118
migrating 224
optimizing, steps 219, 220
structure, selecting 221
structure tags reference 222
working 221, 224

photos
lightboxes, adding 276

phpMyAdmin **280**

pings_open() function **55**

plugin files
modifying, built-in Plugin Editor used 13, 14

plugins
about 71
installing 72
installing, steps 77

plugins installation
about 72
automatically 74, 75
installed plugins, deleting automatically 75,
76
installed plugins, deleting manually 77
starting with 72, 74
working 75

post formats
about 59
aside 61
audio 61
chat 61
gallery 61
image 61
link 61
quote 61
status 61
styling, option 62
using 60
video 61
working 61

post list
background color, alternating 121, 122

post_parent parameter **271**

post published today
displaying 110, 111
displaying, steps 111

posts
accessing, within WordPress loop 103, 104

accessing within WordPress loop, working 104, 105
author-related information, displaying 160, 162
author's avatar, displaying 163
background color, alternating on post list 122
by date, retrieving 108-110
data accessing, outside WordPress loop 114, 115
displaying, in two columns 123-125
displaying, on posts 152, 154
`get_post_data()`, using 117
`get_post()`, using 115-117
multiple authors, allowing 164, 165
notes, adding to 128-130
published today, retrieving 110, 111
published year ago, retrieving 111, 112
retrieving, from specific category 105, 107
retrieving, within WordPress loop 102, 103
specific number, retrieving 107, 108
thumbnails, displaying on blog homepage 121
thumbnails, displaying on homepage 119-121

post_type 271

print friendly pages

about 246
creating 246-248
print link, styling 248
print page, styling 248
WP Print Friendly plugin 246
WP Print Friendly plugin, working 248

Q

query_posts() function 107, 108

R

redirects

adding, for changed URLs 225
Permalink Finder plugin, using 225
Permalink Finder plugin, working 225

register_sidebar() function 81

related posts

about 265
All Related Posts plugin, using 265
displaying 265, 266

related posts plugin

configuring 265
feature 267
working 266, 267

retweet button

displaying, on posts 152, 154

robots.txt file

used, for avoiding duplicate content 229, 230

roles

controlling 18
creating 19, 20
editing 19
working 21

RSS content

about 146-149
aggregating 146-149
working 149, 150

RSS feeds

ads, inserting 198, 199
working 200

RSS Footer plugin 198

S

Save Changes button 99

scanner feature 298

Scheduled Backup section 284

searched text

highlighting, in search results 137

Search engine optimization. *See SEO*

Search Engine plugin

about 249
working 251, 252

search results

plugin, working 138
searched text, highlighting 137

SEO

about 217
backlinks, getting 243
blog, checking for XHTML validity 243
h tags structure, using 243
improving, SEO Ultimate plugin used 241
keywords, using 243, 244
permalinks optimizing, steps 220
permalinks optimizing, working 221
tips 242

- SEO, enhancing tips**
permalinks, optimizing 223
- SEO Friendly Site, creating**
permalinks, safe migration 224
- SEO Ultimate plugin**
SEO, improving 242
- shopping cart**
adding, to site 213-215
working 216
- Show Admin Bar 30**
- sidebar**
tabs, displaying 92
- Sidebar Login plugin**
about 262, 263
working 264
- simple gallery**
adding, to site 174-176
parameters 177
working 177
- site**
exposing, to search engines 218, 219
Facebook functionality access, enabling 178-180
Feedburner, integrating into 150, 151
forum, integrating 139-142
monetizing 187
shopping cart, adding 213-215
simple gallery, adding 174-176
Twitter stream, integrating into 180-185
- site indexing**
about 233
enhancing, XML sitemaps used 233
- site indexing enhancing, XML sitemaps used**
about 233
sitemaps, creating 237
standard sitemap, attributes 236
steps 234
working 236
XML Sitemap Generator 234
- sitemap**
data, to exclude 18
working 18
- sitemap, of site visitors**
adding 271-274
- site mobile device**
working 69
WPtouch plugin, suing 67-69
- site security**
about 280
testing 296-301
- site stats**
displaying, for advertisers search 200-204
working 204, 205
- skins 143**
- social bookmarking buttons**
about 144
adding, to theme 144, 145
working 145
- spam**
about 256
Akismet plugin, using 256
reducing, by blocking comment posting 301, 302
stopping 256, 257
- spammers 301**
- static page**
using, as homepage 64, 65
working 66
- Stop Hotlinking 294**
- structure tags, permalink**
%author% 222
%category% 222
%hour% 222
hyphen (-) separator 222
%minute% 222
%monthnum% 222
%post_id% 222
%second% 222
%year% 222
- style.css file 41**
- Subscribe to Comments Reloaded plugin**
using, for comments 155, 156
working 156
- T**
- tabs, displaying on sidebar**
starting with 92
steps 92-94
- tag cloud**
about 274
Ultimate Tag Cloud plugin, using 275, 276
- tags parameter 270**
- template parameter 270**

templates
modifying 254

template tags
author tags 105
bookmark tags 105
category tags 105
coauthors() 165
coauthors_firstnames() 166
coauthors_IDs() 166
coauthors_lastnames() 166
coauthors_links() 166
coauthors_nicknames() 166
coauthors_posts_links() 165
comment tags 105
general tags 105
link tags 105
navigation menu tags 105
post tags 105
post thumbnail tags 105

template tags, author related
the_author_aim 163
the_author_description 163
the_author_firstname 163
the_author_lastname 163
the_author_nickname 163
the_author_url 163
the_author_yim 163

the_author_aim 163

the_author_description, template tags 163

the_author_firstname, template tags 163

the_author_lastname, template tag 163

the_author_nickname, template tag 163

the_author_url, template tag 163

the_author_yim, template tag 163

theme colors
Cascading Style Sheets, working 39
important points 40
modifying 38, 39

theme colors, modifying
steps 39

Theme editor
starting 11

theme files
modifying, built-in Theme Editor used 10, 11, 12
version information, removing from 287

theme fonts
@font-face, using 42
modifying 40, 41
web-safe fonts 41

theme installation
starting with 32
steps 32-35
Themes option 33

themes
about 32
colors, modifying 38
custom styles, adding 66
fonts, modifying 40
installing 32-35
installing, manually 35, 36
single widget-ready zone, working 81
social bookmarking buttons, adding 144, 145
widget areas, adding 79, 80

third party services
about 231
pinging 232
working 232

thumbnails parameter 271

toolbar
enabling, for administrators 29, 30
enabling, for users 29, 30

Top Commentators widget
about 158, 160
working 160

Twitter stream
integrating, into site 180-185
working 184, 185

Twitter Tools plugin
twitter integrating, steps 183

U

Ultimate Tag Cloud plugin 275

Update button 100, 165

Update File button 11, 67

update() function 85

Update Media button 10

Update RSS Footer Settings button 199

Update User button 17

URL re-writing 220

usergroups
forum 144

user permissions

controlling 18

users

managing 14-18

toolbar, enabling 29, 30

V**version information**

removing, from theme files 287

visibility

about 194, 195

managing 195, 196

Who Sees Ads plugin, working 197

W**web-safe fonts 41****Who Sees Ads plugin**

global options 197

global options, click safety 197

global options, date format 197

global options, old post 197

global options, regular reader 197

working 197

widget_content filter 97**widget display**

controlling, conditional tags used 94, 95

working 96

widget() function 85**widgets**

about 71

core widget, modifying 85

installing 78, 79

own widget, creating 82-84

placing, inside of pages 97-100

placing, inside of posts 97-100

shortcode use, enabling 126, 127

shortcode use, working 127

using 77, 78

working 100

Widgets option 211**WordPress**

about 5

Admin Bar 29

administration system 5

child theme, creating 36

content, exporting 24

content exporting, Export tool used 25

content, importing 24

content importing, Import tool used 24

editorial workflow, setting up 21

favicon, integrating 44

homepage, thumbnails displaying 119-121

Jetpack, installing 26

Jetpack, using 26

media files managing, Media Library used 6

permissions, controlling 18

plugin files modifying, built-in Plugin Editor used 13

roles 18

theme files modifying, built-in Theme Editor used 10

themes 32

toolbar for administrators, enabling 29

toolbar for users, enabling 29

user roles, controlling 18

users, managing 14

version information, removing from theme files 287

WordPress blog

core widgets, modifying 92

homepage, thumbnails displaying 121

WordPress Codex 36**WordPress files**

backups, creating 286

WordPress gallery shortcode 177**WordPress loop**

about 102, 103

outsidedata posts, accessing 114, 115

posts, accessing 103, 104

posts accessing, working 104, 105

posts, retrieving 102, 103

template tags. category 105

URL 103

Wordpress.org 67**WordPress search**

about 249

extending 249, 251

Search Engine plugin 249

Search Engine plugin, working 251, 252

WordPress shortcodes

creating 126

starting 192

using 125

used, for ad display 192, 193
working 194

WordPress site

- access, denying to unneeded hints 290, 291
- access, restricting to wp-admin directory by IP address 294
- Administrator account, removing 288
- automatic backup, creating with WP DB Backup plugin 282, 283
- backups, creating for files 286
- HTTP authentication, setting up 292-294
- manual backup, creating for database 280-282
- MySQL backup, restoring 284, 285
- protecting, against brute force login attempts 289, 290
- security, testing 296-301
- spam, reducing by blocking comment posting 301, 302
- version information, removing from theme files 287

WordPress theme

- custom 404 error page, creating 63
- favicon, integrating 44

WordPress version information

- removing, from theme files 287

WP database backup

- downloading 19

WP DB Backup plugin

- about 282
- automatic backup, creating with 282, 283

WP jQuery Lightbox plugin 277

wp_list_authors() function 168

- parameters 168

WP Print Friendly plugin

- about 246
- working 248

WP_query() function 112, 113

WP Security Scan plugin 296, 301

WP Super Cache plugin

- about 259
- configuring 261
- content delivery network 262
- content, preloading 262
- options 262
- working 261

WP Super Cache Settings page 260

WPtouch plugin 67



Thank you for buying WordPress 3 Cookbook

About Packt Publishing

Packt, pronounced 'packed', published its first book "*Mastering phpMyAdmin for Effective MySQL Management*" in April 2004 and subsequently continued to specialize in publishing highly focused books on specific technologies and solutions.

Our books and publications share the experiences of your fellow IT professionals in adapting and customizing today's systems, applications, and frameworks. Our solution based books give you the knowledge and power to customize the software and technologies you're using to get the job done. Packt books are more specific and less general than the IT books you have seen in the past. Our unique business model allows us to bring you more focused information, giving you more of what you need to know, and less of what you don't.

Packt is a modern, yet unique publishing company, which focuses on producing quality, cutting-edge books for communities of developers, administrators, and newbies alike. For more information, please visit our website: www.packtpub.com.

About Packt Open Source

In 2010, Packt launched two new brands, Packt Open Source and Packt Enterprise, in order to continue its focus on specialization. This book is part of the Packt Open Source brand, home to books published on software built around Open Source licences, and offering information to anybody from advanced developers to budding web designers. The Open Source brand also runs Packt's Open Source Royalty Scheme, by which Packt gives a royalty to each Open Source project about whose software a book is sold.

Writing for Packt

We welcome all inquiries from people who are interested in authoring. Book proposals should be sent to author@packtpub.com. If your book idea is still at an early stage and you would like to discuss it first before writing a formal book proposal, contact us; one of our commissioning editors will get in touch with you.

We're not just looking for published authors; if you have strong technical skills but no writing experience, our experienced editors can help you develop a writing career, or simply get some additional reward for your expertise.

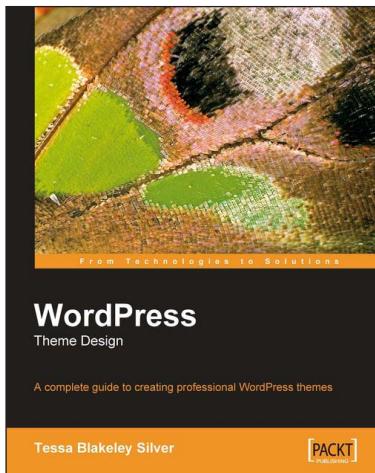


WordPress 3 Site Blueprints

ISBN: 978-1-847199-36-2 Paperback: 300 pages

Ready-made plans for 9 different professional
WordPress sites

1. Everything you need to build a varied collection of feature-rich customized WordPress websites for yourself
2. Transform a static website into a dynamic WordPress blog
3. In-depth coverage of several WordPress themes and plugins
4. Packed with screenshots and step-by-step instructions to help you complete each site



WordPress Theme Design

ISBN: 978-1-847193-09-4 Paperback: 224 pages

A complete guide to creating professional WordPress themes

1. Take control of the look and feel of your WordPress site
2. Simple, clear tutorial to creating Unique and Beautiful themes
3. Expert guidance with practical step-by-step instructions for theme design
4. Design tips, tricks, and troubleshooting ideas

Please check www.PacktPub.com for information on our titles

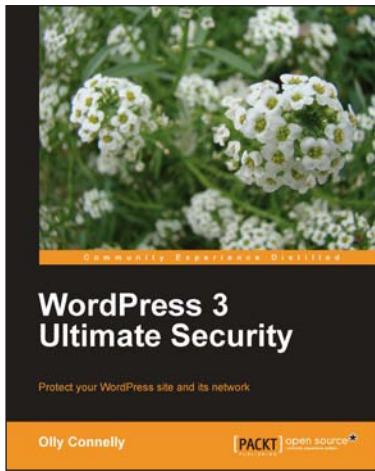


WordPress for Business Bloggers

ISBN: 978-1-847195-32-6 Paperback: 356 pages

Promote and grow your WordPress blog with advanced plug-ins, analytics, advertising, and SEO

1. Gain a competitive advantage with a well polished WordPress business blog
2. Develop and transform your blog with strategic goals
3. Create your own custom design using the Sandbox theme
4. Apply SEO (search engine optimization) to your blog
5. Market and measure the success of your blog



WordPress 3 Ultimate Security

ISBN: 978-1-84951-210-7 Paperback: 408 pages

Protect your WordPress site and its network

1. Know the risks, think like a hacker, use their toolkit, find problems first – and kick attacks into touch
2. Lock down your entire network from the local PC and web connection to the server and WordPress itself
3. Find out how to back up and secure your content and, when it's scraped, know what to do to enforce your copyright

Please check www.PacktPub.com for information on our titles

