

# Foundations of PEAR

Rapid PHP Development



Nathan A. Good and Allan Kent

## **Foundations of PEAR: Rapid PHP Development**

**Copyright © 2006 by Nathan A. Good and Allan Kent**

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

ISBN-13 (pbk): 978-1-59059-739-2

ISBN-10 (pbk): 1-59059-739-7

Printed and bound in the United States of America 9 8 7 6 5 4 3 2 1

Trademarked names may appear in this book. Rather than use a trademark symbol with every occurrence of a trademarked name, we use the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

Lead Editor: Matt Wade

Technical Reviewer: Ligaya Turmelle

Editorial Board: Steve Anglin, Ewan Buckingham, Gary Cornell, Jason Gilmore, Jonathan Gennick, Jonathan Hassell, James Huddleston, Chris Mills, Matthew Moodie, Dominic Shakeshaft, Jim Sumser, Keir Thomas, Matt Wade

Project Manager: Denise Santoro Lincoln

Copy Edit Manager: Nicole Flores

Copy Editor: Susannah Davidson Pfalzer

Assistant Production Director: Kari Brooks-Copony

Production Editor: Kelly Winquist

Compositor: Susan Glinert

Proofreader: Lori Bring

Indexer: John Collin

Cover Designer: Kurt Krames

Manufacturing Director: Tom Debolski

Distributed to the book trade worldwide by Springer-Verlag New York, Inc., 233 Spring Street, 6th Floor, New York, NY 10013. Phone 1-800-SPRINGER, fax 201-348-4505, e-mail orders-ny@springer-sbm.com, or visit <http://www.springeronline.com>.

For information on translations, please contact Apress directly at 2560 Ninth Street, Suite 219, Berkeley, CA 94710. Phone 510-549-5930, fax 510-549-5939, e-mail [info@apress.com](mailto:info@apress.com), or visit <http://www.apress.com>.

The information in this book is distributed on an “as is” basis, without warranty. Although every precaution has been taken in the preparation of this work, neither the author(s) nor Apress shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this work.

The source code for this book is available to readers at <http://www.apress.com> in the Source Code/Download section.

# Contents

About the Authors .....	xix
About the Technical Reviewer .....	xxi
Acknowledgments.....	xxiii
Preface .....	xxv

## Introduction

Installing PEAR .....	1
Configuring PEAR .....	2
Using the PEAR Package Manager .....	4
Installing the Packages in this Book .....	7
PEAR_Error .....	8
Looking Ahead .....	12

## Authentication

<b>Auth</b> .....	14
Common Uses .....	14
Related Packages .....	14
Dependencies .....	14
API .....	15
Examples .....	21
 <b>Auth_HTTP</b> .....	27
Common Uses .....	27
Related Packages .....	27
Dependencies .....	27
API .....	27
Examples .....	30

<b>Auth_PrefManager</b> .....	32
Common Uses .....	32
Related Packages .....	32
Dependencies .....	32
API .....	32
Examples .....	35

## Utilities and Tools

<b>Cache_Lite</b> .....	40
Common Uses .....	40
Related Packages .....	40
Dependencies .....	40
API .....	41
Examples .....	45

<b>Config</b> .....	48
Common Uses .....	48
Dependencies .....	48
API .....	49
Examples .....	51

<b>Event_Dispatcher</b> .....	54
Common Uses .....	54
Related Packages .....	54
Dependencies .....	54
API .....	54
Examples .....	58

<b>Log</b> .....	61
Common Uses .....	61
Related Packages .....	61
Dependencies .....	61
API .....	62
Examples .....	67

<b>PHPUnit2</b>	71
Common Uses	71
Related Packages	71
Dependencies	72
More Information	72
API	72
Examples	78
 <b>PhpDocumentor</b>	 83
Common Uses	83
Related Packages	83
Dependencies	83
API	84
Examples	86

## Dates and Numbers

<b>Date</b>	90
Common Uses	90
Related Packages	90
Dependencies	90
Date API	91
Date_Span API	102
Date_TimeZone API	109
Examples	112
 <b>Date_Holidays</b>	 115
Common Uses	115
Related Packages	115
Dependencies	115
Date_Holidays API	116
Date_Holidays_Driver API	119
Examples	124

<b>Numbers_Roman</b>	127
Common Uses	127
Related Packages	127
Dependencies	127
API	128
Examples	128
 <b>Numbers_Words</b>	 130
Common Uses	130
Related Packages	130
Dependencies	130
API	130
Examples	131

## HTML

<b>HTML_Crypt</b>	134
Common Uses	134
Related Packages	134
Dependencies	134
API	134
Examples	136
 <b>HTML_Form</b>	 138
Common Uses	138
Related Packages	138
Dependencies	138
API	138
Examples	171
 <b>HTML_JavaScript</b>	 174
Common Uses	174
Related Packages	174
Dependencies	174
API	174
Examples	178

<b>HTML_Menu</b> .....	180
Common Uses .....	180
Related Packages .....	180
Dependencies .....	180
API .....	180
Examples .....	184
 <b>HTML_Progress2_Lite</b> .....	 186
Common Uses .....	186
Related Packages .....	186
Dependencies .....	186
API .....	186
Examples .....	190
 <b>HTML_QuickForm</b> .....	 192
Common Uses .....	192
Related Packages .....	192
Dependencies .....	192
API .....	192
Examples .....	206
 <b>HTML_Safe</b> .....	 209
Common Uses .....	209
Related Packages .....	209
Dependencies .....	209
API .....	209
 <b>HTML_Table</b> .....	 211
Common Uses .....	211
Related Packages .....	211
Dependencies .....	211
API .....	211
Examples .....	220

# Images and Text

<b>Image_Color</b> .....	224
Common Uses .....	224
Related Packages .....	224
Dependencies .....	224
API .....	225
Examples .....	228
 <b>Image_Text</b> .....	234
Common Uses .....	234
Related Packages .....	234
Dependencies .....	234
API .....	234
Examples .....	239
 <b>Text_CAPTCHA</b> .....	241
Common Uses .....	241
Related Packages .....	241
Dependencies .....	241
API .....	242
Examples .....	243
 <b>Text_Password</b> .....	246
Common Uses .....	246
Related Packages .....	246
Dependencies .....	246
API .....	247
Examples .....	248
 <b>Text_Wiki</b> .....	251
Common Uses .....	251
Related Packages .....	251
Dependencies .....	251
API .....	252
Examples .....	260



# Database

<b>DB</b> .....	264
Common Uses .....	264
Related Packages .....	264
Dependencies .....	264
API .....	265
Examples .....	278
 <b>DB_DataObject</b> .....	282
Common Uses .....	282
Related Packages .....	282
Dependencies .....	282
API .....	282
Examples .....	291
 <b>DB_Pager</b> .....	295
Common Uses .....	295
Related Packages .....	295
Dependencies .....	295
API .....	296
Examples .....	297
 <b>DB_Table</b> .....	299
Common Uses .....	299
Related Packages .....	299
Dependencies .....	299
API .....	300
Examples .....	309

# Files and Formats

<b>Contact_Vcard_Build</b> .....	316
Common Uses .....	316
Related Packages .....	316
Dependencies .....	316
API .....	317
Examples .....	329
 <b>Contact_Vcard_Parse</b> .....	 332
Common Uses .....	332
Related Packages .....	332
Dependencies .....	332
API .....	332
Examples .....	334
 <b>Archive_Tar</b> .....	 340
Common Uses .....	340
Related Packages .....	340
Dependencies .....	340
API .....	340
Examples .....	344
 <b>Archive_Zip</b> .....	 346
Common Uses .....	346
Related Packages .....	346
Dependencies .....	346
API .....	346
Examples .....	351
 <b>File</b> .....	 353
Common Uses .....	353
Related Packages .....	353
Dependencies .....	353
API .....	354
Examples .....	357

<b>File_Archive</b> .....	360
Common Uses .....	360
Related Packages .....	360
Dependencies .....	360
API .....	361
Examples .....	373
 <b>File_Bittorrent</b> .....	 376
Common Uses .....	376
Related Packages .....	376
Dependencies .....	376
API .....	376
Examples .....	378
 <b>File_Find</b> .....	 381
Common Uses .....	381
Related Packages .....	381
Dependencies .....	381
API .....	382
Examples .....	383
 <b>File_HtAccess</b> .....	 386
Common Uses .....	386
Related Packages .....	386
Dependencies .....	386
API .....	387
Examples .....	391
 <b>File_SearchReplace</b> .....	 395
Common Uses .....	395
Related Packages .....	395
Dependencies .....	395
API .....	396
Examples .....	398

# HTTP

<b>HTTP</b>	402
Common Uses	402
Related Packages	402
Dependencies	402
API	402
Examples	404
 <b>HTTP_Client</b>	407
Common Uses	407
Related Packages	407
Dependencies	407
API	408
Examples	412
 <b>HTTP_Download</b>	414
Common Uses	414
Related Packages	414
Dependencies	414
API	415
Examples	420
 <b>HTTP_Header</b>	422
Common Uses	422
Related Packages	422
Dependencies	422
API	422
Examples	427
 <b>HTTP_Request</b>	429
Common Uses	429
Related Packages	429
Dependencies	429
API	429
Examples	436

<b>HTTP_Upload</b>	438
Common Uses	438
Related Packages	438
Dependencies	438
API	438
Examples	442

## **XML**

<b>XML_Beautifier</b>	446
Common Uses	446
Related Packages	446
Dependencies	446
API	447
Examples	449
<b>SOAP</b>	453
Common Uses	453
Related Packages	453
Dependencies	453
SOAP_Server API	454
SOAP_Client API	455
Examples	458
<b>Services_WebService</b>	461
Common Uses	461
Related Packages	461
Dependencies	461
API	461
Examples	463

# Mail

<b>Mail</b> .....	470
Common Uses .....	470
Related Packages .....	470
Dependencies .....	470
API .....	470
Examples .....	472
 <b>Mail_Mime</b> .....	474
Common Uses .....	474
Related Packages .....	474
Dependencies .....	474
API .....	474
Examples .....	478
 <b>Mail_mimeDecode</b> .....	480
Common Uses .....	480
Related Packages .....	480
Dependencies .....	480
API .....	480
Examples .....	482
 <b>Mime_Type</b> .....	485
Common Uses .....	485
Related Packages .....	485
Dependencies .....	485
API .....	485
Examples .....	489

<b>PROJECT 1</b>	<b>Intranet Address Book Website</b>	491
	The Contact Class	492
	A Class to Store the Address	499
	The Login Page	503
	Listing the Contacts	504
	Adding a New Contact	506
	Viewing a Contact	508
	Downloading the Contact	510
	The AddressbookUtils Utility Class	512
	A Singleton Configuration Class	514
<b>PROJECT 2</b>	<b>Forum</b>	517
	Data Structures	517
	The Forum	520
<b>PROJECT 3</b>	<b>Web Calendar</b>	537
	Building the Database	537
	Building the Data Objects	538
	Allowing Users to Register	541
	Creating a Login Form	543
	Exposing Free Information with Ajax	545
	Adding Appointments	547
	Drawing the Calendar	552
<b>INDEX</b>		559