

Contents

Acknowledgments	ix
Introduction	xix
Chapter 1: What's New in PHP5?	1
Object-Oriented Changes	1
Passing Objects	1
Exceptions	1
Interfaces	5
Iterators	5
Constructors and Destructors	6
Access Modifiers	6
The final Keyword	6
The static Keyword	7
The abstract Keyword	7
Built-In Method Overloading Functions	8
New Functions	9
Other Changes to PHP5	12
Configuration Changes	12
MySQLi	12
XML Support	16
Tidy Extension	17
SQLite	17
Summary	17
Chapter 2: PHP5 OOP	19
Procedural Programming versus OOP	19
Basic Class Definitions	20
Visibility	23
Constructors and Destructors	25
Static Keyword	27
Class Constants	28
Assignment versus Cloning	29

Contents

Inheritance and Interfaces	30
Inheritance	31
Interfaces	35
Magic Methods	37
__call	38
__get and __set	38
__sleep	39
__wakeup	40
__toString	43
Summary	45
Chapter 3: More Obscure PHP	47
Array Functions and Callbacks	48
Using Callbacks	48
array_map()	50
array_walk()	51
array_filter() and preg_grep()	53
preg_replace_callback()	53
call_user_func_array() and call_user_func()	55
create_function()	57
Final Observations on the Array Functions	59
glob()	60
PHP Streams	61
Creating and Using Streams	62
Two Examples of Streams	63
Summary	72
Chapter 4: Advanced MySQL	73
The Basics, Revisited	73
Creating the Databases	74
Adding Information	75
Retrieving Information	76
Updating Information	77
Removing Information	77
Querying Multiple Tables	77
Inner Joins	78
Outer Joins	81
Unions	82

Full-Text Searching	86
Enabling Full-Text Searching	86
Querying Using Full-Text Search	87
Limitations	88
InnoDB Tables	88
InnoDB Advantages	88
InnoDB Disadvantages	89
Using InnoDB	89
Controlling Access	93
User Administration	93
Server Restriction	100
Analyzing the Database	100
SHOW COLUMNS	101
SHOW CREATE TABLE	101
SHOW DATABASES	102
SHOW GRANTS	102
Database Maintenance	103
Creating Backups	103
Restoring Databases from Backups	103
Summary	104
Chapter 5: PHP Configuration	105
<hr/>	
Modifying php.ini	105
Recommended Configuration Directives	105
New to PHP5	107
PHP Configuration during Runtime	108
Obtaining Current Runtime Settings	108
Changing Configuration Dynamically	113
Automated Version and Feature Checking	116
Summary	128
Chapter 6: Apache Tricks	129
<hr/>	
URL Rewriting	129
Enabling mod_rewrite	130
RewriteRule	131
RewriteCond	139
RewriteBase	143
RewriteLog	143
RewriteLogLevel	144

Contents

URL Spell Checking	144
Content Compression	145
Using mod_deflate	146
How Well Does mod_deflate Work?	148
Enabling Compression for PHP Scripts	148
Using MySQL with Apache	149
Setting Up the Database	149
Installing the Module	150
Configuration and Usage	151
Apache and SSL	154
Apache as a File Repository	158
Windows 2000/XP	159
Mac OS X	163
Summary	164
Chapter 7: Site Security	165
Controlling Access	165
Apache-Controlled Authentication	165
PHP-Controlled Authentication	166
Website Attacks	178
Abusing register_globals	178
SQL Injection Attacks	179
Cross-Site Scripting	180
Other Considerations	181
Summary	182
Chapter 8: PEAR and PECL	183
What Is PEAR?	183
What Is PECL?	184
Exploring PEAR	184
The PEAR Manager	184
Installing Packages	186
Using Installed Packages	187
Quick and Dirty PEAR Packages	187
What Else Is There?	195
Exploring PECL	196
Fileinfo	196
PDO	196
Xdebug	197
Summary	197

Chapter 9: Code Efficiency	199
Why Bother?	199
A Lot for a Little	200
A Little for a Lot	200
Comparing the Speed of Strings—A Benchmarking Example	201
Unintuitive Results	206
Benchmarking and Profiling	206
PEAR Benchmark	207
top and ab	208
Hardware Improvements	210
Web Server Improvements	211
PHP Improvements	213
Coding Standards	213
Caching	223
Your Own Code	227
Summary	231
Chapter 10: PHP Extensions	233
PDFLib	233
Configuration	234
Getting Started	234
Specifying Document Information	235
Required Elements	235
Helper Functions	235
About Fonts and Positioning	237
Finishing Up	237
PDF Resume Generator	238
GD Library	241
Creating the Image Base	241
Resizing Images	245
Rotating Images	248
Adding a Caption	250
Adding a Logo	254
Testing It Out	257
Ming	263
About Ming	263
Objects in Ming	264
Creating a Flash Display	265
SimpleXML	269
Summary	271

Chapter 11: AJAX	273
History	274
The Image Source Trick	275
Hidden Frames	275
Hidden IFRAME	276
XMLHTTP and XMLHttpRequest	277
The Interfaces	277
Working with the Interfaces	279
Handling the Response	280
AJAX Libraries	282
SAJAX	282
CPAINT	283
JPSPAN	283
When Not to Use AJAX	283
Further Information	285
Summary	285
Chapter 12: Caching Engines	287
Alternative PHP Cache	287
Installing APC	288
Configuring APC	288
Removing APC	290
eAccelerator	290
Installing eAccelerator	291
Configuring eAccelerator	291
Removing eAccelerator	294
Zend Optimizer	294
Installing Zend Optimizer	294
Configuring Zend Optimizer	295
Removing Zend Optimizer	296
JPCache	296
Installing JPCache	296
Configuring JPCache	297
Removing JPCache	300
memcached	300
Installing memcached	300
Using memcached	301
Removing memcached	304
Using Different Caching Engines Together	304
Choosing Your Caching Engine	305
Summary	305

Chapter 13: Content Management Systems	307
Types of CMSs	307
Enterprise CMSs	307
Web CMS/Portals	308
Open Source Web CMS Packages	308
All-Inclusive Web CMSs	309
ExponentCMS	309
XOOPS	312
phpWebsite	315
TikiWiki	318
Others	321
Micro CMSs	322
The Magic of Blogs	322
Wiki	324
Other Micro CMS Packages	327
Other Helpful Resources	327
Summary	328
Appendix A: Language Translation	329
Appendix B: Alternative Tools	347
Index	355

