

Contents

Foreword	xi
Introduction	xiii
Acknowledgments	xvii
About the Authors	xix
1 Models	1
AntiPattern: Voyeuristic Models	2
Solution: Follow the Law of Demeter	3
Solution: Push All <code>find()</code> Calls into Finders on the Model	7
Solution: Keep Finders on Their Own Model	10
AntiPattern: Fat Models	14
Solution: Delegate Responsibility to New Classes	15
Solution: Make Use of Modules	21
Solution: Reduce the Size of Large Transaction Blocks	24
AntiPattern: Spaghetti SQL	31
Solution: Use Your Active Record Associations and Finders Effectively	32
Solution: Learn and Love the Scope Method	36
Solution: Use a Full-Text Search Engine	42
AntiPattern: Duplicate Code Duplication	50
Solution: Extract into Modules	50
Solution: Write a Plugin	59
Solution: Make Magic Happen with Metaprogramming	64
2 Domain Modeling	73
AntiPattern: Authorization Astronaut	74
Solution: Simplify with Simple Flags	76

AntiPattern: The Million-Model March	79
Solution: Denormalize into Text Fields	79
Solution: Make Use of Rails Serialization	82
3 Views	89
AntiPattern: PHPitis	91
Solution: Learn About the View Helpers That Come with Rails	92
Solution: Add Useful Accessors to Your Models	98
Solution: Extract into Custom Helpers	100
AntiPattern: Markup Mayhem	107
Solution: Make Use of the Rails Helpers	109
Solution: Use Haml	111
4 Controllers	117
AntiPattern: Homemade Keys	118
Solution: Use Clearance	119
Solution: Use Authlogic	121
AntiPattern: Fat Controller	123
Solution: Use Active Record Callbacks and Setters	123
Solution: Move to a Presenter	142
AntiPattern: Bloated Sessions	154
Solution: Store References Instead of Instances	154
AntiPattern: Monolithic Controllers	161
Solution: Embrace REST	161
AntiPattern: Controller of Many Faces	167
Solution: Refactor Non-RESTful Actions into a Separate Controller	167
AntiPattern: A Lost Child Controller	170
Solution: Make Use of Nested Resources	173
AntiPattern: Rat's Nest Resources	180
Solution: Use Separate Controllers for Each Nesting	181
AntiPattern: Evil Twin Controllers	184
Solution: Use Rails 3 Responders	186
5 Services	189
AntiPattern: Fire and Forget	190
Solution: Know What Exceptions to Look Out For	190

- AntiPattern: Sluggish Services 195
 - Solution: Set Your Timeouts 195
 - Solution: Move the Task to the Background 195
- AntiPattern: Pitiful Page Parsing 197
 - Solution: Use a Gem 198
- AntiPattern: Successful Failure 201
 - Solution: Obey the HTTP Codes 203
- AntiPattern: Kraken Code Base 207
 - Solution: Divide into Confederated Applications 207
- 6 Using Third-Party Code 211**
 - AntiPattern: Recutting the Gem 213
 - Solution: Look for a Gem First 213
 - AntiPattern: Amateur Gemologist 214
 - Solution: Follow TAM 214
 - AntiPattern: Vendor Junk Drawer 216
 - Solution: Prune Irrelevant or Unused Gems 216
 - AntiPattern: Miscreant Modification 217
 - Solution: Consider Vendored Code Sacrosanct 217
- 7 Testing 221**
 - AntiPattern: Fixture Blues 223
 - Solution: Make Use of Factories 225
 - Solution: Refactor into Contexts 228
 - AntiPattern: Lost in Isolation 236
 - Solution: Watch Your Integration Points 238
 - AntiPattern: Mock Suffocation 240
 - Solution: Tell, Don't Ask 241
 - AntiPattern: Untested Rake 246
 - Solution: Extract to a Class Method 248
 - AntiPattern: Unprotected Jewels 251
 - Solution: Write Normal Unit Tests Without Rails 251
 - Solution: Load Only the Parts of Rails You Need 254
 - Solution: Break Out the Atom Bomb 259

8	Scaling and Deploying	267
	AntiPattern: Scaling Roadblocks	268
	Solution: Build to Scale from the Start	268
	AntiPattern: Disappearing Assets	271
	Solution: Make Use of the System Directory	271
	AntiPattern: Sluggish SQL	272
	Solution: Add Indexes	272
	Solution: Reassess Your Domain Model	277
	AntiPattern: Painful Performance	282
	Solution: Don't Do in Ruby What You Can Do in SQL	282
	Solution: Move Processing into Background Jobs	286
9	Databases	291
	AntiPattern: Messy Migrations	292
	Solution: Never Modify the up Method on a Committed Migration	292
	Solution: Never Use External Code in a Migration	293
	Solution: Always Provide a down Method in Migrations	295
	AntiPattern: Wet Validations	297
	Solution: Eschew Constraints in the Database	298
10	Building for Failure	301
	AntiPattern: Continual Catastrophe	302
	Solution: Fail Fast	302
	AntiPattern: Inaudible Failures	306
	Solution: Never Fail Quietly	307
	Index	311