Contents Contents of Methods works and Behavior Contents

	Foreword	xi
	Acknowledgments	xiii
	Welcome!	xv
1.	Start Cleaning Up	1
	Dae Collection Jenamating Complex Systematics Improcesses	2
	Avoid Unnecessary Comparisons Avoid Negations	4
	Return Boolean Expressions Directly	6
	Simplify Boolean Expressions	8
	Avoid NullPointerException in Conditionals	10
	Avoid Switch Fallthrough	12
	Always Use Braces Manual Manual Company and Published Blova	14
	Ensure Code Symmetry	16
	What Have You Learned?	18
2.	Level Up Your Code Style	19
	Replace Magic Numbers with Constants	20
	Favor Enums Over Integer Constants	22
	Favor For-Each Over For Loops	24
	Avoid Collection Modification During Iteration	26
	Avoid Compute-Intense Operations During Iteration	28
	Group with New Lines	30
	Favor Format Over Concatenation	32
	Favor Java API Over DIY	34
3.	Use Comments Wisely	37
	Remove Superfluous Comments	38
	Remove Commented-Out Code	/11
	Replace Comments with Constants	42

	Replace Comments with Utility Methods	44
	Document Implementation Decisions	46
	Document Using Examples	48
	Structure JavaDoc of Packages	50
	Structure JavaDoc of Classes and Interfaces	52
	Structure JavaDoc of Methods	54
	Structure JavaDoc of Constructors	56
	What Have You Learned?	58
4.	Name Things Right	59
	Use Java Naming Conventions	60
	Follow Getter/Setter Conventions for Frameworks	62
	Avoid Single-Letter Names	64
	Avoid Abbreviations	66
	Avoid Meaningless Terms	68
	Use Domain Terminology	70
	What Have You Learned?	72
5.	Prepare for Things Going Wrong	73
	Fail Fast was accommon and music manufactured and property and music manufactured and property and music manufactured and music music manufactured and music	74
	Always Catch Most Specific Exception	76
	Explain Cause in Message	78
	Avoid Breaking the Cause Chain	80
	Expose Cause in Variable	82
	Always Check Type Before Cast	84
	Always Close Resources	86
	Always Close Multiple Resources	88
	Explain Empty Catch	90
	What Have You Learned?	92
6.	Assert Things Going Right	93
	Structure Tests Into Given-When-Then	94
	Use Meaningful Assertions	96
	Expected Before Actual Value notisate isomo 2 1940 1811103 10483	98
	Use Reasonable Tolerance Values	100
	Let JUnit Handle Exceptions Sports of government and the standard of the stand	102
	Describe Your Tests	104
	Favor Standalone Tests	106
	Parametrize Your Tests	108
	Cover the Edge Cases	110
	What Have You Learned?	112

7.	Design Your Objects	113
	Split Method with Boolean Parameters	114
	Split Method with Optional Parameters	116
	Favor Abstract Over Concrete Types	118
	Favor Immutable Over Mutable State	120
	Combine State and Behavior	122
	Avoid Leaking References	124
	Avoid Returning Null	126
	What Have You Learned?	128
8.	Let Your Data Flow	129
	Favor Lambdas Over Anonymous Classes	130
	Favor Functional Over Imperative Style	132
	Favor Method References Over Lambdas	134
	Avoid Side Effects	136
	Use Collect for Terminating Complex Streams	138
	Avoid Exceptions in Streams	140
	Favor Optional Over Null	142
	Avoid Optional Fields or Parameters	144
	Use Optionals as Streams	146
	What Have You Learned?	148
9.	Prepare for the Real World	149
	Use Static Code Analysis Tools	150
	Agree On the Java Format in Your Team	152
	Automate Your Build	153
	Use Continuous Integration	154
	Prepare for and Deliver Into Production	155
	Favor Logging Over Console Output	156
	Minimize and Isolate Multithreaded Code	158
	Use High-Level Concurrency Abstractions	159
	Speed Up Your Program	160
	Know Your Falsehoods	162
	What Have You Learned?	164
	Bibliography	165
	Index Programming as series of mini experimen	167