

Read Free Pragmatic Thinking  
And Learning Refactor Your

Wetware Pragmatic  
Programmers

# **Pragmatic Thinking And Learning Refactor Your Wetware Pragmatic Programmers**

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*Are you doing all you can  
to further your career as  
a software developer? With  
today's rapidly changing  
and ever-expanding  
technologies, being  
successful requires more*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*than technical expertise.  
To grow professionally,  
you also need soft skills  
and effective learning  
techniques. Honing those  
skills is what this book  
is all about. Authors Dave*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*Hoover and Adewale*

*Oshineye have cataloged  
dozens of behavior  
patterns to help you  
perfect essential aspects  
of your craft. Compiled  
from years of research,*

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Wetware Pragmatic  
Programmers

*many interviews, and  
feedback from O'Reilly's  
online forum, these  
patterns address difficult  
situations that  
programmers,  
administrators, and DBAs*

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Wetware Pragmatic  
Programmers

*face every day. And it's  
not just about financial  
success. Apprenticeship  
Patterns also approaches  
software development as a  
means to personal  
fulfillment. Discover how*

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Wetware Pragmatic  
Programmers

*this book can help you  
make the best of both your  
life and your career.*

*Solutions to some common  
obstacles that this book  
explores in-depth include:  
Burned out at work?*

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Wetware Pragmatic  
Programmers

*"Nurture Your Passion" by  
finding a pet project to  
rediscover the joy of  
problem solving. Feeling  
overwhelmed by new  
information? Re-explore  
familiar territory by*



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Wetware Pragmatic  
Programmers

*building something you've  
built before, then use*

*"Retreat into Competence"*

*to move forward again.*

*Stuck in your learning?*

*Seek a team of experienced*

*and talented developers*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*with whom you can "Be the Worst" for a while.*

*"Brilliant stuff! Reading this book was like being in a time machine that pulled me back to those key learning moments in my*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*career as a professional  
software developer and,  
instead of having to learn  
best practices the hard  
way, I had a guru sitting  
on my shoulder guiding me  
every step towards master*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*craftsmanship. I'll  
certainly be recommending  
this book to clients. I  
wish I had this book 14  
years ago!"-Russ Miles,  
CEO, OpenCredo  
Drowning in unnecessary*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*complexity, unmanaged state, and tangles of spaghetti code? In the best tradition of Lisp, Clojure gets out of your way so you can focus on expressing simple*

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Wetware Pragmatic  
Programmers

*solutions to hard  
problems. Clojure cuts  
through complexity by  
providing a set of  
composable  
tools--immutable data,  
functions, macros, and the*

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Wetware Pragmatic  
Programmers

*interactive REPL. Written  
by members of the Clojure  
core team, this book is  
the essential, definitive  
guide to Clojure. This new  
edition includes  
information on all the*

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Wetware Pragmatic  
Programmers

*newest features of  
Clojure, such as  
transducers and specs.  
Clojure joins the  
flexibility and agility of  
Lisp with the reach,  
stability, and performance*



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*of Java. Combine Clojure's  
tools for maximum  
effectiveness as you work  
with immutable data,  
functional programming,  
and safe concurrency to  
write programs that solve*

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Wetware Pragmatic  
Programmers

*real-world problems. Start  
by reading and  
understanding Clojure  
syntax and see how Clojure  
is evaluated. From there,  
find out about the  
sequence abstraction,*

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Wetware Pragmatic  
Programmers

*which combines immutable  
collections with  
functional programming to  
create truly reusable data  
transformation code.*

*Clojure is a functional  
language; learn how to*

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Wetware Pragmatic  
Programmers

*write programs in a  
functional style, and when  
and how to use recursion  
to your advantage.*

*Discover Clojure's unique  
approach to state and  
identity, techniques for*

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Wetware Pragmatic  
Programmers

*polymorphism and open  
systems using multimethods  
and protocols, and how to  
leverage Clojure's  
metaprogramming  
capabilities via macros.  
Finally, put all the*

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*pieces together in a real program. New to this edition is coverage of Clojure's spec library, one of the most interesting new features of Clojure for describing*

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*both data and functions.  
You can use Clojure spec  
to validate data,  
destructure data, explain  
invalid data, and generate  
large numbers of tests to  
verify the correctness of*

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*your code. With this book,  
you'll learn how to think  
in Clojure, and how to  
take advantage of its  
combined strengths to  
build powerful programs  
quickly. What You Need:*



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Wetware Pragmatic  
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*Java 6 or higher Clojure  
1.9*

*Printed in full color.*

*Faced with a software  
project of epic  
proportions? Tired of over-  
committing and under-*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*delivering? Enter the dojo  
of the agile samurai,  
where agile expert  
Jonathan Rasmusson shows  
you how to kick-start,  
execute, and deliver your  
agile projects. Combining*

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Wetware Pragmatic  
Programmers

*cutting-edge tools with  
classic agile practices,  
The Agile Samurai gives  
you everything you need to  
deliver something of value  
every week and make  
rolling your software into*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*production a non-event.*

*Get ready to kick some  
software project butt. By  
learning the ways of the  
agile samurai you will  
discover: how to create  
plans and schedules your*

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Wetware Pragmatic  
Programmers

*customer and your team can  
believe in what  
characteristics make a  
good agile team and how to  
form your own how to  
gather requirements in a  
fraction of the time using*

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Wetware Pragmatic  
Programmers

*agile user stories what to  
do when you discover your  
schedule is wrong, and how  
to look like a pro  
correcting it how to  
execute fiercely by  
leveraging the power of*

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Programmers

*agile software engineering  
practices By the end of  
this book you will know  
everything you need to set  
up, execute, and  
successfully deliver agile  
projects, and have fun*

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*along the way. If you're a project lead, this book gives you the tools to set up and lead your agile project from start to finish. If you are an analyst, programmer,*



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Wetware Pragmatic  
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*tester, usability  
designer, or project  
manager, this book gives  
you the insight and  
foundation necessary to  
become a valuable agile  
team member. The Agile*

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Wetware Pragmatic  
Programmers

*Samurai slices away the fluff and theory that make other books less-than-agile. It's packed with best practices, war stories, plenty of humor and hands-on tutorial*

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Wetware Pragmatic  
Programmers

*exercises that will get  
you doing the right  
things, the right way.  
This book will make a  
difference.*

*The Pragmatic Programmers  
classic is back! Freshly*

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Wetware Pragmatic  
Programmers

*updated for modern  
software development,  
Pragmatic Unit Testing in  
Java 8 With JUnit teaches  
you how to write and run  
easily maintained unit  
tests in JUnit with*

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Wetware Pragmatic  
Programmers

*confidence. You'll learn mnemonics to help you know what tests to write, how to remember all the boundary conditions, and what the qualities of a good test are. You'll see*

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Wetware Pragmatic  
Programmers

*how unit tests can pay off  
by allowing you to keep  
your system code clean,  
and you'll learn how to  
handle the stuff that  
seems too tough to test.  
Pragmatic Unit Testing in*

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Wetware Pragmatic  
Programmers

*Java 8 With JUnit steps  
you through all the  
important unit testing  
topics. If you've never  
written a unit test,  
you'll see screen shots  
from Eclipse, IntelliJ*

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Programmers

*IDEA, and NetBeans that  
will help you get past the  
hard part--getting set up  
and started. Once past the  
basics, you'll learn why  
you want to write unit  
tests and how to*



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Wetware Pragmatic  
Programmers

*effectively use JUnit. But  
the meaty part of the book  
is its collected unit  
testing wisdom from people  
who've been there, done  
that on production systems  
for at least 15 years:*

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Wetware Pragmatic  
Programmers

*veteran author and  
developer Jeff Langr,  
building on the wisdom of  
Pragmatic Programmers Andy  
Hunt and Dave Thomas.  
You'll learn: How to craft  
your unit tests to*

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Wetware Pragmatic  
Programmers

*minimize your effort in  
maintaining them. How to  
use unit tests to help  
keep your system clean.  
How to test the tough  
stuff. Memorable mnemonics  
to help you remember*

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Wetware Pragmatic  
Programmers

*what's important when  
writing unit tests. How to  
help your team reap and  
sustain the benefits of  
unit testing. You won't  
just learn about unit  
testing in theory--you'll*

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Wetware Pragmatic  
Programmers

*work through numerous code examples. When it comes to programming, hands-on is the only way to learn! Based on the principles of cognitive science and instructional design,*

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Wetware Pragmatic  
Programmers

*Fluent C#, the first in the new Fluent Learning series, is a true tutorial that will help you build effective working models for understanding a large and complex subject:*

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Wetware Pragmatic  
Programmers

*developing .NET Framework  
applications in C#. Most  
introductory books just  
talk at you and give you  
“exercises” that have more  
to do with taking  
dictation than actually*

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Wetware Pragmatic  
Programmers

*learning. Fluent C# is  
different. It guides you  
through learning the way  
your mind likes to learn:  
by solving puzzles, making  
connections, and building  
genuine understanding*



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Wetware Pragmatic  
Programmers

*instead of just memorizing  
random facts. DETAILED*

*INFORMATION ON HOW TO... .*

*Write .NET applications in  
C# 2010 . Leverage the  
incredible power of the  
.NET Framework Class*

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Wetware Pragmatic  
Programmers

*Library · Apply Object-  
Oriented principles,  
Design Patterns, and best  
practices to your code ·  
Develop desktop  
applications using the  
powerful Windows*

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*Wetware Pragmatic  
Programmers  
Presentation Foundation  
user interface API*

*The Essence of Progress  
and Poverty*

*Refactor Your Wetware  
Apprenticeship Patterns  
Pragmatic Thinking and*

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Wetware Pragmatic  
Learning  
Programmers

*Coder to Developer*

*Learn the Art of Solving  
Computational Problems*

*Debugging Teams*

***It's easier to learn how  
to program a computer than***

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Wetware Pragmatic  
Programmers

*it has ever been before.*

*Now everyone can learn to  
write programs for  
themselves - no previous  
experience is necessary.*

*Chris Pine takes a  
thorough, but lighthearted*

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Wetware Pragmatic  
Programmers

*approach that teaches you  
the fundamentals of  
computer programming, with  
a minimum of fuss or  
bother. Whether you are  
interested in a new hobby  
or a new career, this book*

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Wetware Pragmatic  
Programmers  
*is your doorway into the  
world of programming.*

*Computers are everywhere,  
and being able to program  
them is more important  
than it has ever been. But  
since most books on*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*programming are written  
for other programmers, it  
can be hard to break in.  
At least it used to be.  
Chris Pine will teach you  
how to program. You'll  
learn to use your computer*



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Wetware Pragmatic  
Programmers

*better, to get it to do  
what you want it to do.  
Starting with small,  
simple one-line programs  
to calculate your age in  
seconds, you'll see how to  
write interactive*

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Webware Pragmatic  
Programmers

*programs, to use APIs to  
fetch live data from the  
internet, to rename your  
photos from your digital  
camera, and more. You'll  
learn the same technology  
used to drive modern*

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Wetware Pragmatic  
Programmers

*dynamic websites and  
large, professional  
applications. Whether you  
are looking for a fun new  
hobby or are interested in  
entering the tech world as  
a professional, this book*

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Wetware Pragmatic  
Programmers

*gives you a solid  
foundation in programming.  
Chris teaches the basics,  
but also shows you how to  
think like a programmer.  
You'll learn through tons  
of examples, and through*

# Read Free Pragmatic Thinking And Learning Refactor Your

Wetware Pragmatic  
Programmers

*programming challenges  
throughout the book. When  
you finish, you'll know  
how and where to learn  
more - you'll be on your  
way. What You Need: All  
you need to learn how to*

# Read Free Pragmatic Thinking And Learning Refactor Your

Webware Pragmatic  
Programmers

*program is a computer  
(Windows, macOS, or Linux)  
and an internet  
connection. Chris Pine  
will lead you through  
setting set up with the  
software you will need to*

# Read Free Pragmatic Thinking And Learning Refactor Your

*start writing programs of  
your own.*

*Anyone who develops  
software for a living  
needs a proven way to  
produce it better, faster,  
and cheaper. The*

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Wetware Pragmatic  
Programmers

*Productive Programmer*  
*offers critical timesaving*  
*and productivity tools*  
*that you can adopt right*  
*away, no matter what*  
*platform you use. Master*  
*developer Neal Ford not*



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Wetware Pragmatic  
Programmers

*only offers advice on the mechanics of productivity—how to work smarter, spurn interruptions, get the most out your computer, and avoid repetition—he also details valuable*

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Wetware Pragmatic  
Programmers

*practices that will help  
you elude common traps,  
improve your code, and  
become more valuable to  
your team. You'll learn  
to: Write the test before  
you write the code Manage*

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And Learning Refactor Your

Wetware Pragmatic  
Programmers

*the lifecycle of your  
objects fastidiously Build  
only what you need now,  
not what you might need  
later Apply ancient  
philosophies to software  
development Question*

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Wetware Pragmatic  
Programmers

*authority, rather than  
blindly adhere to  
standards Make hard things  
easier and impossible  
things possible through  
meta-programming Be sure  
all code within a method*

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Wetware Pragmatic  
Programmers

*is at the same level of  
abstraction Pick the right  
editor and assemble the  
best tools for the job  
This isn't theory, but the  
fruits of Ford's real-  
world experience as an*

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Webware Pragmatic  
Programmers

*Application Architect at  
the global IT consultancy  
ThoughtWorks. Whether  
you're a beginner or a pro  
with years of experience,  
you'll improve your work  
and your career with the*

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And Learning Refactor Your

*simple and straightforward  
principles in The  
Productive Programmer.  
Printed in full color.  
Software development  
happens in your head. Not  
in an editor, IDE, or*

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Wetware Pragmatic  
Programmers

*designtool. You're well  
educated on how to work  
with software and  
hardware, but what about  
wetware--our own brains?  
Learning new skills and  
new technology is critical*



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Wetware Pragmatic  
Programmers

*to your career, and it's  
all in your head. In this  
book by Andy Hunt, you'll  
learn how our brains are  
wired, and how to take  
advantage of your brain's  
architecture. You'll learn*

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Wetware Pragmatic  
Programmers

*new tricks and tipsto  
learn more, faster, and  
retain more of what you  
learn. You need a  
pragmatic approach to  
thinking and learning. You  
need to Refactor Your*

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Wetware Pragmatic  
Programmers

*Wetware. Programmers have to learn constantly; not just the stereotypical new technologies, but also the problem domain of the application, the whims of the user community, the*

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Wetware Pragmatic  
Programmers

*quirks of your teammates,  
the shifting sands of the  
industry, and the evolving  
characteristics of the  
project itself as it is  
built. We'll journey  
together through bits of*

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Wetware Pragmatic  
Programmers

*cognitive and  
neuroscience, learning and  
behavioral theory. You'll  
see some surprising  
aspects of how our brains  
work, and how you can take  
advantage of the system to*

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And Learning Refactor Your

Wetware Pragmatic  
Programmers

*improve your own learning  
and thinking skills. In  
this book you'll learn how  
to: Use the Dreyfus Model  
of Skill Acquisition to  
become more expert  
Leverage the architecture*

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Wetware Pragmatic  
Programmers

*of the brain to strengthen  
different thinking modes  
Avoid common "known bugs"  
in your mind Learn more  
deliberately and more  
effectively Manage  
knowledge more efficiently*

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*Thinking Forth* applies a philosophy of problem solving and programming style to the unique programming language Forth. Published first in 1984, it could be among



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Programmers

*the timeless classics of  
computer books, such as  
Fred Brooks' The Mythical  
Man-Month and Donald  
Knuth's The Art of  
Computer Programming. Many  
software engineering*

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*principles discussed here  
have been rediscovered in  
eXtreme Programming,  
including (re)factoring,  
modularity, bottom-up and  
incremental design. Here  
you'll find all of those*

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Wetware Pragmatic  
Programmers

*and more, such as the  
value of analysis and  
design, described in Leo  
Brodie's down-to-earth,  
humorous style, with  
illustrations, code  
examples, practical real*

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Wetware Pragmatic  
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*life applications,  
illustrative cartoons, and  
interviews with Forth's  
inventor, Charles H. Moore  
as well as other Forth  
thinkers.*

*For weeks,*

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*months—nay!—from the very  
moment you were born,  
you've felt it calling to  
you. At long last you'll  
be united with the  
programming language  
you've been longing for:*

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*Clojure! As a Lisp-style functional programming language, Clojure lets you write robust and elegant code, and because it runs on the Java Virtual Machine, you can take*

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*advantage of the vast Java ecosystem. Clojure for the Brave and True offers a "dessert-first" approach: you'll start playing with real programs immediately, as you steadily acclimate*

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*Wetware Pragmatic  
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to the abstract but  
powerful features of Lisp  
and functional  
programming. Inside you'll  
find an offbeat, practical  
guide to Clojure, filled  
with quirky sample



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*programs that catch cheese  
thieves and track glittery  
vampires. Learn how to:*

- Wield Clojure's core  
functions*
- Use Emacs for  
Clojure development*
- Write  
macros to modify Clojure*

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Wetware Pragmatic  
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*itself -Use Clojure's  
tools to simplify  
concurrency and parallel  
programming Clojure for  
the Brave and True assumes  
no prior experience with  
Clojure, the Java Virtual*

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*Machine, or functional programming. Are you ready, brave reader, to meet your true destiny? Grab your best pair of parentheses—you're about to embark on an epic*

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*journey into the world of  
Clojure!*

*Pragmatic Unit Testing in  
Java 8 with JUnit*

*How and when to refactor*

*25 Simple Electronics*

*Projects for Beginners*

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*The Pragmatic Programmer  
Ten Sketches of Computer  
Science*

*Clean Code*

*your journey to mastery,  
20th Anniversary Edition*

***Get more out of your***

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***legacy systems: more  
performance,  
functionality, reliability,  
and manageability Is your  
code easy to change? Can  
you get nearly  
instantaneous feedback***

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***when you do change it?  
Do you understand it? If  
the answer to any of these  
questions is no, you have  
legacy code, and it is  
draining time and money  
away from your***

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***development efforts. In  
this book, Michael  
Feathers offers start-to-  
finish strategies for  
working more effectively  
with large, untested  
legacy code bases. This***



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***book draws on material  
Michael created for his  
renowned Object Mentor  
seminars: techniques  
Michael has used in  
mentoring to help  
hundreds of developers,***

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***technical managers, and  
testers bring their legacy  
systems under control.***

***The topics covered  
include Understanding  
the mechanics of software  
change: adding features,***

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***fixing bugs, improving  
design, optimizing  
performance Getting  
legacy code into a test  
harness Writing tests that  
protect you against  
introducing new problems***

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***Techniques that can be  
used with any language or  
platform—with examples  
in Java, C++, C, and C#  
Accurately identifying  
where code changes need  
to be made Coping with***

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Programmers  
***legacy systems that aren't  
object-oriented Handling  
applications that don't  
seem to have any  
structure This book also  
includes a catalog of  
twenty-four dependency-***

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***breaking techniques that  
help you work with  
program elements in  
isolation and make safer  
changes.***

***In 1994, Design Patterns  
changed the landscape of***

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***object-oriented  
development by  
introducing classic  
solutions to recurring  
design problems. In 1999,  
Refactoring  
revolutionized design by***

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***introducing an effective  
process for improving  
code. With the highly  
anticipated Refactoring  
to Patterns , Joshua  
Kerievsky has changed  
our approach to design by***



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***forever uniting patterns  
with the evolutionary  
process of refactoring.***

***This book introduces the  
theory and practice of  
pattern-directed  
refactorings: sequences***

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***of low-level refactorings  
that allow designers to  
safely move designs to,  
towards, or away from  
pattern implementations.  
Using code from real-  
world projects, Kerievsky***

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***documents the thinking  
and steps underlying over  
two dozen pattern-based  
design transformations.  
Along the way he offers  
insights into pattern  
differences and how to***

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***implement patterns in the  
simplest possible ways.***

***Coverage includes: A  
catalog of twenty-seven  
pattern-directed  
refactorings, featuring  
real-world code examples***

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***Descriptions of twelve  
design smells that  
indicate the need for this  
book's refactorings  
General information and  
new insights about  
patterns and refactoring***

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***Detailed implementation  
mechanics: how low-level  
refactorings are  
combined to implement  
high-level patterns  
Multiple ways to  
implement the same***

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***pattern-and when to use  
each Practical ways to get  
started even if you have  
little experience with  
patterns or refactoring  
Refactoring to Patterns  
reflects three years of***

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***refinement and the  
insights of more than  
sixty software  
engineering thought  
leaders in the global  
patterns, refactoring, and  
agile development***



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***communities. Whether  
you're focused on legacy  
or "greenfield"  
development, this book  
will make you a better  
software designer by  
helping you learn how to***

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***make important design  
changes safely and  
effectively.***

***If the house doesn't get  
him, the drones will... "A  
creepy, slow-burn thriller  
that escalates into a real***

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***page-turner."***

***"Two thumbs up"***

***—Gregory V. Wilson, Dr.  
Dobbs Journal (October  
2004) No one can  
disparage the ability to  
write good code. At***

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***its highest levels, it is an art. But no one can confuse writing good code with developing good software. The difference—in terms of challenges, skills,***

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***and compensation—is  
immense. Coder to  
Developer helps you excel  
at the many non-coding  
tasks entailed, from start  
to finish, in just about  
any successful***

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***development project.***

***What's more, it equips  
you with themindset and  
self-assurance required to  
pull it all together, sothat  
you see every piece of  
your work as part of a***

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***coherent process. Inside,  
you'll find plenty of  
technical guidance on  
such topics as: Choosing  
and using a source code  
control system Code  
generation tools--when***

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***and why Preventing bugs  
with unit testing***

***Tracking, fixing, and  
learning from bugs***

***Application activity***

***logging Streamlining and  
systematizing the build***



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***process Traditional  
installations and  
alternative approaches To  
pull all of this together,  
the author has provided  
the sourcecode for  
Download Tracker, a tool***

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***for organizing your  
collection of downloaded  
code, that's used for  
examples throughout this  
book. The code is provided  
in various states of  
completion, reflecting***

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***everystage of  
development, so that you  
can dig deep into the  
actualprocess of building  
software. But you'll also  
develop "softer"skills, in  
areas such as team***

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***management, open  
source collaboration, user  
and developer  
documentation, and  
intellectual property  
protection. If you want to  
become someone who can***

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***delivernot just good code  
but also a good product,  
this book is the placeto  
start. If you must build  
successful software  
projects, it'sessential  
reading.***

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***Mathematics is beautiful--and it can be fun and exciting as well as practical. Good Math is your guide to some of the most intriguing topics from two thousand years***

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***of mathematics: from  
Egyptian fractions to  
Turing machines; from  
the real meaning of  
numbers to proof trees,  
group symmetry, and  
mechanical computation.***

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***If you've ever wondered  
what lay beyond the  
proofs you struggled to  
complete in high school  
geometry, or what limits  
the capabilities of  
computer on your desk,***



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***this is the book for you.***

***Why do Roman numerals  
persist? How do we know  
that some infinities are  
larger than others? And  
how can we know for  
certain a program will***

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***ever finish? In this fast-paced tour of modern and not-so-modern math, computer scientist Mark Chu-Carroll explores some of the greatest breakthroughs and***

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***disappointments of more  
than two thousand years  
of mathematical thought.  
There is joy and beauty in  
mathematics, and in more  
than two dozen essays  
drawn from his popular***

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***"Good Math" blog, you'll find concepts, proofs, and examples that are often surprising, counterintuitive, or just plain weird. Mark begins his journey with the***

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***basics of numbers, with  
an entertaining trip  
through the integers and  
the natural, rational,  
irrational, and  
transcendental numbers.  
The voyage continues***

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***with a look at some of the  
oddest numbers in  
mathematics, including  
zero, the golden ratio,  
imaginary numbers,  
Roman numerals, and  
Egyptian and continuing***

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***fractions. After a deep  
dive into modern logic,  
including an introduction  
to linear logic and the  
logic-savvy Prolog  
language, the trip  
concludes with a tour of***

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***modern set theory and  
the advances and  
paradoxes of modern  
mechanical computing. If  
your high school or  
college math courses left  
you grasping for the inner***



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**meaning behind the  
numbers, Mark's book  
will both entertain and  
enlighten you.**

**Programming Clojure  
How Agile Masters  
Deliver Great Software**

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***Coders at Work***

***The Motivation Hacker***

***How Claude Shannon***

***Invented the Information***

***Age***

***Get Fit, Feel Better, and***

***Keep Coding***

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***Clojure for the Brave and  
True***

Presents a guide to unit  
testing with the NUnit library  
in C# along with providing  
information on writing code,  
detecting and fixing

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problems, testing pieces of  
code, and testing with a  
team.

Special Features: · It's less  
theoretical and more hands-  
on practical.· Illustrates how  
to use Erlang/OTP in

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practice, through carefully  
chosen realistic examples  
About The Book: Erlang and  
OTP in Action teaches you  
the concepts of concurrent  
programming and the use of  
Erlang's message-passing

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model. It walks you through progressively more interesting examples, building systems in Erlang and integrating them with C/C++, Java, and .NET applications, including SOA

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and web architectures. This book is written for readers new to Erlang and interested in creating practical applications.

Peter Seibel interviews 15 of the most interesting

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computer programmers alive  
today in Coders at Work,  
offering a companion volume  
to Apress's highly acclaimed  
best-seller Founders at Work  
by Jessica Livingston. As the  
words "at work" suggest,



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Peter Seibel focuses on how his interviewees tackle the day-to-day work of programming, while revealing much more, like how they became great programmers, how they

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recognize programming talent in others, and what kinds of problems they find most interesting. Hundreds of people have suggested names of programmers to interview on the Coders at

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Work web site:  
[www.codersatwork.com](http://www.codersatwork.com). The

complete list was 284  
names. Having digested  
everyone's feedback, we  
selected 15 folks who've  
been kind enough to agree

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to be interviewed: Frances  
Allen: Pioneer in optimizing  
compilers, first woman to  
win the Turing Award (2006)  
and first female IBM fellow  
Joe Armstrong: Inventor of  
Erlang Joshua Bloch: Author

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of the Java collections  
framework, now at Google  
Bernie Cosell: One of the  
main software guys behind  
the original ARPANET IMPs  
and a master debugger  
Douglas Crockford: JSON

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founder, JavaScript architect  
at Yahoo! L. Peter Deutsch:  
Author of Ghostscript,  
implementer of Smalltalk-80  
at Xerox PARC and Lisp 1.5  
on PDP-1 Brendan Eich:  
Inventor of JavaScript, CTO

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of the Mozilla Corporation

Brad Fitzpatrick: Writer of

LiveJournal, OpenID,

memcached, and Perlbal Dan

Ingalls: Smalltalk

implementor and designer

Simon Peyton Jones:

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Coinventor of Haskell and  
lead designer of Glasgow  
Haskell Compiler Donald  
Knuth: Author of The Art of  
Computer Programming and  
creator of TeX Peter Norvig:  
Director of Research at



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Google and author of the  
standard text on AI Guy  
Steele: Coinventor of  
Scheme and part of the  
Common Lisp Gang of Five,  
currently working on Fortress  
Ken Thompson: Inventor of

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UNIX Jamie Zawinski: Author  
of XEmacs and early  
Netscape/Mozilla hacker  
This second volume of the -  
Arduino Project Handbook  
delivers 25 more beginner-  
friendly electronics projects.

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Get up and running with a crash course on the Arduino, and then pick any project that sparks your interest and start making! Each project includes cost and time estimates, simple

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instructions, colorful photos  
and circuit diagrams, a  
troubleshooting section, and  
the complete code to bring  
your build to life. With just  
the Arduino board and a  
handful of components,

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you'll make gadgets like a rainbow light display, noise-level meter, digital piano, GPS speedometer, and fingerprint scanner. This collection of projects is a fast and fun way to get started

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with microcontrollers that's  
perfect for beginners,  
hobbyists, parents, and  
educators. 25 Step-by-Step  
Projects LED Light Bar Light-  
Activated Night-Light Seven-  
Segment LED Countdown

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Timer LED Scrolling Marquee  
Mood Light Rainbow Strip  
Light NeoPixel Compass  
Arduino Piano Audio LED  
Visualizer Old-School Analog  
Dial Stepper Motor  
Temperature-Controlled Fan

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Ultrasonic Range Finder  
Digital Thermometer Bomb  
Decoder Game Serial LCD  
Screen Ultrasonic People  
Counter Nokia 5110 LCD  
Screen Pong Game OLED  
Breathalyzer Ultrasonic



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Soaker Fingerprint Scanner  
Ultrasonic Robot Internet-  
Controlled LED Voice-  
Controlled LED GPS  
Speedometer Uses the  
Arduino Uno board Praise for  
the first volume of Arduino

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Project Handbook: "Easily  
the best beginner's guide  
out there. Pair with an  
inexpensive clone-based  
starter kit, and it's never  
been cheaper to join the  
maker revolution."

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Webware Pragmatic  
—MakeUseOf.com

Programmers  
"Beautifully designed."

—Boing Boing

The software profession has  
a problem, widely recognized  
but which nobody seems  
willing to do anything about;

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a variant of the well known  
"telephone game," where  
some trivial rumor is  
repeated from one person to  
the next until it has become  
distorted beyond recognition  
and blown up out of all

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proportion. Unfortunately, the objects of this telephone game are generally considered cornerstone truths of the discipline, to the point that their acceptance now seems to

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hinder further progress. This book takes a look at some of those ""ground truths"" the claimed 10x variation in productivity between developers; the ""software crisis""; the cost-of-change

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curve; the "cone of uncertainty"; and more. It assesses the real weight of the evidence behind these ideas - and confronts the scary prospect of moving the state of the art forward in a

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discipline that has had the  
ground kicked from under it.

The Healthy Programmer

A Handbook of Agile

Software Craftsmanship

Seven Languages in Seven

Weeks



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Refactoring  
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Write Cleaner, Faster,  
Smarter Code

Good Math

Pragmatic Unit Testing in C#  
with NUnit

*A foolproof walkthrough of must-*

*Page 169/309*

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*know computer science concepts.  
A fast guide for those who don't  
need the academic formality, it  
goes straight to what  
differentiates pros from amateurs.  
First introducing discrete  
mathematics, then exposing the*

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*most common algorithm and data  
structure design elements, and  
finally the working principles of  
computers and programming  
languages, the book is indicated  
to all programmers.*

*Are you working on a codebase*

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*where cost overruns, death  
marches, and heroic fights with  
legacy code monsters are the  
norm? Battle these adversaries  
with novel ways to identify and  
prioritize technical debt, based on  
behavioral data from how*

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*developers work with code. And that's just for starters. Because good code involves social design, as well as technical design, you can find surprising dependencies between people and code to resolve coordination bottlenecks*

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*among teams. Best of all, the techniques build on behavioral data that you already have: your version-control system. Join the fight for better code! Use statistics and data science to uncover both problematic code*

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*and the behavioral patterns of the developers who build your software. This combination gives you insights you can't get from the code alone. Use these insights to prioritize refactoring needs, measure their effect, find implicit*

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*dependencies between different modules, and automatically create knowledge maps of your system based on actual code contributions. In a radical, much-needed change from common practice, guide organizational*



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*decisions with objective data by measuring how well your development teams align with the software architecture. Discover a comprehensive set of practical analysis techniques based on version-control data, where each*

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*point is illustrated with a case study from a real-world codebase. Because the techniques are language neutral, you can apply them to your own code no matter what programming language you use. Guide organizational*

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*decisions with objective data by  
measuring how well your  
development teams align with the  
software architecture. Apply  
research findings from social  
psychology to software  
development, ensuring you get the*

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*tools you need to coach your organization towards better code. If you're an experienced programmer, software architect, or technical manager, you'll get a new perspective that will change how you work with code. What*

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*You Need: You don't have to install anything to follow along in the book. The case studies in the book use well-known open source projects hosted on GitHub. You'll use CodeScene, a free software analysis tool for open source*

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*Wetware Pragmatic  
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projects, for the case studies. We  
also discuss alternative tooling  
options where they exist.

*Five Lines of Code teaches  
refactoring that's focused on  
concrete rules and getting any  
method down to five lines or less!*

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*There's no jargon or tricky  
automated-testing skills required,  
just easy guidelines and patterns  
illustrated by detailed code  
samples. In Five Lines of Code you  
will learn: The signs of bad code  
Improving code safely, even when*

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*you don't understand it Balancing  
optimization and code generality  
Proper compiler practices The  
Extract method, Introducing  
Strategy pattern, and many other  
refactoring patterns Writing  
stable code that enables change-*



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*by-addition Writing code that  
needs no comments Real-world  
practices for great refactoring  
Improving existing  
code—refactoring—is one of the  
most common tasks you'll face as  
a programmer. Five Lines of Code*

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*Wetware Pragmatic  
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teaches you clear and actionable  
refactoring rules that you can  
apply without relying on intuitive  
judgements such as “code smells.”  
Following the author’s expert  
perspective—that refactoring and  
code smells can be learned by

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*following a concrete set of principles—you'll learn when to refactor your code, what patterns to apply to what problem, and the code characteristics that indicate it's time for a rework. Purchase of the print book includes a free*

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*eBook in PDF, Kindle, and ePub  
formats from Manning  
Publications. About the  
technology Every codebase  
includes mistakes and  
inefficiencies that you need to find  
and fix. Refactor the right way,*

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*and your code becomes elegant,  
easy to read, and easy to  
maintain. In this book, you'll learn  
a unique approach to refactoring  
that implements any method in  
five lines or fewer. You'll also  
discover a secret most senior devs*

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*know: sometimes it's quicker to hammer out code and fix it later! About the book Five Lines of Code is a fresh look at refactoring for developers of all skill levels. In it, you'll master author Christian Clausen's innovative approach,*

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*learning concrete rules to get any method down to five lines—or less! You'll learn when to refactor, specific refactoring patterns that apply to most common problems, and characteristics of code that should be deleted altogether.*

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*What's inside The signs of bad code Improving code safely, even when you don't understand it Balancing optimization and code generality Proper compiler practices About the reader For developers of all skill levels.*



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*Examples use easy-to-read  
Typescript, in the same style as  
Java and C#. About the author  
Christian Clausen works as a  
Technical Agile Coach, teaching  
teams how to refactor code. Table  
of Contents 1 Refactoring*

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*refactoring 2 Looking under the  
hood of refactoring PART 1*

*LEARN BY REFACTORING A*

*COMPUTER GAME 3 Shatter long  
function 4 Make type codes work*

*5 Fuse similar code together 6*

*Defend the data PART 2 TAKING*

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WHAT YOU HAVE LEARNED  
INTO THE REAL WORLD 7

*Collaborate with the compiler 8  
Stay away from comments 9 Love  
deleting code 10 Never be afraid  
to add code 11 Follow the  
structure in the code 12 Avoid*

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*Wetware Pragmatic  
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optimizations and generality 13  
Make bad code look bad 14

*Wrapping up*

*“One of the most significant books  
in my life.” -Obie Fernandez,  
Author, The Rails Way “Twenty  
years ago, the first edition of The*

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*Pragmatic Programmer*  
completely changed the trajectory  
of my career. This new edition  
could do the same for yours.”

*-Mike Cohn, Author of Succeeding  
with Agile, Agile Estimating and  
Planning, and User Stories*

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*Applied “ . . . filled with practical  
advice, both technical and  
professional, that will serve you  
and your projects well for years to  
come.” -Andrea Goulet, CEO,  
Corgibytes, Founder,  
LegacyCode.Rocks “ . . . lightning*

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*Wetware Pragmatic  
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does strike twice, and this book is  
proof.” -VM (Vicky) Brasseur,  
Director of Open Source Strategy,  
Juniper Networks *The Pragmatic  
Programmer* is one of those rare  
tech books you'll read, re-read,  
and read again over the years.

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*Whether you're new to the field or an experienced practitioner, you'll come away with fresh insights each and every time. Dave Thomas and Andy Hunt wrote the first edition of this influential book in 1999 to help their clients create*



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*better software and rediscover the joy of coding. These lessons have helped a generation of programmers examine the very essence of software development, independent of any particular language, framework, or*

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*methodology, and the Pragmatic  
philosophy has spawned hundreds  
of books, screencasts, and audio  
books, as well as thousands of  
careers and success stories. Now,  
twenty years later, this new  
edition re-examines what it means*

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*to be a modern programmer.*

*Topics range from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll*

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*learn how to: Fight software rot  
Learn continuously Avoid the trap  
of duplicating knowledge Write  
flexible, dynamic, and adaptable  
code Harness the power of basic  
tools Avoid programming by  
coincidence Learn real*

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*requirements Solve the underlying  
problems of concurrent code  
Guard against security  
vulnerabilities Build teams of  
Pragmatic Programmers Take  
responsibility for your work and  
career Test ruthlessly and*

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*effectively, including property-based testing Implement the Pragmatic Starter Kit Delight your users Written as a series of self-contained sections and filled with classic and fresh anecdotes, thoughtful examples, and*

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interesting analogies, *The Pragmatic Programmer* illustrates the best approaches and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a

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*manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that*



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*details.*

*Let Over Lambda is one of the  
most hardcore computer  
programming books out there.  
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describes the most advanced  
features of the most advanced*

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*language: Common Lisp. Only the top percentile of programmers use lisp and if you can understand this book you are in the top percentile of lisp programmers. If you are looking for a dry coding manual that re-hashes common-sense*

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*techniques in whatever language you use today, this book is not for you. This book is about pushing the boundaries of what we know about programming. While this book teaches useful skills that can help solve your programming*

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*problems today and now, it has also been designed to be entertaining and inspiring. If you have ever wondered what lisp or even programming itself is really about, this is the book you have been looking for.*

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*From Journeyman to Master  
Improving the Design of Existing  
Code*

*Your Code as a Crime Scene  
Software Design X-Rays*

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Weatherly Hall  
Pragmatic

ERLANG AND OTP IN ACTION

"This is your field  
guide to getting  
yourself to want to do  
everything you always  
wanted to want to

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do"--Page [4] of cover.

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Software development

happens in your head.



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Not in an editor, IDE,  
or designtool. You're  
well educated on how to  
work with software and  
hardware, but what about  
wetware --our own  
brains? Learning new

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skills and new  
technology is critical  
to your career, and it's  
all in your head. In  
this book by Andy Hunt,  
you'll learn how our  
brains are wired, and

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how to take advantage of  
your brain's

architecture. You'll

learn new tricks and

tipsto learn more,

faster, and retain more

of what you learn. You

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need a pragmatic  
approach to thinking and  
learning. You need to  
Refactor Your Wetware.  
Jack the Ripper and  
legacy codebases have  
more in common than

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you'd think. Inspired by forensic psychology methods, you'll learn strategies to predict the future of your codebase, assess refactoring direction,

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and understand how your  
team influences the  
design. With its unique  
blend of forensic  
psychology and code  
analysis, this book arms  
you with the strategies

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you need, no matter what programming language you use. Software is a living entity that's constantly changing. To understand software systems, we need to know

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where they came from and  
how they evolved. By  
mining commit data and  
analyzing the history of  
your code, you can start  
fixes ahead of time to  
eliminate broken



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designs, maintenance  
issues, and team  
productivity  
bottlenecks. In this  
book, you'll learn  
forensic psychology  
techniques to

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successfully maintain  
your software. You'll  
create a geographic  
profile from your commit  
data to find hotspots,  
and apply temporal  
coupling concepts to

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**uncover hidden  
relationships between  
unrelated areas in your  
code. You'll also  
measure the  
effectiveness of your  
code improvements.**

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You'll learn how to  
apply these techniques  
on projects both large  
and small. For small  
projects, you'll get new  
insights into your  
design and how well the

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code fits your ideas.  
For large projects,

you'll identify the good  
and the fragile parts.

Large-scale development  
is also a social  
activity, and the team's

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dynamics influence code  
quality. That's why this  
book shows you how to  
uncover social biases  
when analyzing the  
evolution of your  
system. You'll use

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commit messages as  
eyewitness accounts to  
what is really happening  
in your code. Finally,  
you'll put it all  
together by tracking  
organizational problems

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in the code and finding  
out how to fix them.

Come join the hunt for  
better code! What You  
Need: You need Java 6  
and Python 2.7 to run  
the accompanying



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analysis tools. You also  
need Git to follow along  
with the examples.

In this concise text,  
the distinguished  
American philosopher  
John Dewey compiled

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excerpts from the  
massive Progress and  
Poverty to provide those  
unfamiliar with Henry  
George's work with the  
essence of the author's  
thinking on economics.

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In his Foreword, Dewey noted, "It would require less than the fingers of the two hands to enumerate those who from Plato down rank with [George]. No man, no

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graduate of a higher  
educational institution,  
has a right to regard  
himself as an educated  
man in social thought  
unless he has some first-  
hand acquaintance with

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the theoretical  
contribution of this  
great American thinker."  
Fifteen brief chapters  
feature passages from  
George's highly  
influential book and

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examine why poverty  
persists throughout  
periods of economic and  
technological progress  
as well as the basis for  
economic cycles of boom  
and bust.

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**A Geek's Guide to the**

**Beauty of Numbers,**

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**Five Lines of Code**

**Mastering Clojure Macros**

**Refactoring for Software**

**Design Smells**

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**The Leprechauns of  
Software Engineering  
Reflections on the Craft  
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Learn to Program**

Looks at the principles and clean  
code, includes case studies



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showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

Winner of the Neumann Prize for the History of Mathematics "We owe

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Claude Shannon a lot, and Soni & Goodman ' s book takes a big first step in paying that debt." —San Francisco Review of Books "Soni and Goodman are at their best when they invoke the wonder an idea can instill. They summon the right level of awe

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while stopping short of hyperbole."

—Financial Times "Jimmy Soni and

Rob Goodman make a convincing

case for their subtitle while reminding

us that Shannon never made this

claim himself." —The Wall Street

Journal " A charming account of one

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of the twentieth-century ' s most distinguished scientists...Readers will enjoy this portrait of a modern-day Da Vinci. ” —Fortune In their second collaboration, biographers Jimmy Soni and Rob Goodman present the story of Claude

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Shannon—one of the foremost intellects of the twentieth century and the architect of the Information Age, whose insights stand behind every computer built, email sent, video streamed, and webpage loaded.

Claude Shannon was a

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groundbreaking polymath, a brilliant tinkerer, and a digital pioneer. He constructed the first wearable computer, outfoxed Vegas casinos, and built juggling robots. He also wrote the seminal text of the digital revolution, which has been called

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“ the Magna Carta of the Information Age. ” In this elegantly written, exhaustively researched biography, Soni and Goodman reveal Claude Shannon ’ s full story for the first time. With unique access to Shannon ’ s family and friends, A

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Mind at Play brings this singular innovator and always playful genius to life.

Level up your skills by taking advantage of Clojure's powerful macro system. Macros make hard things possible and normal things



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easy. They can be tricky to use, and this book will help you deftly navigate the terrain. You'll discover how to write straightforward code that avoids duplication and clarifies your intentions. You'll learn how and why to write macros. You'll learn to

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recognize situations when using a macro would (and wouldn't!) be helpful. And you'll use macros to remove unnecessary code and build new language features. Clojure offers some sharp tools in its toolbox, and one of the sharpest is its macro

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system. This book will help you write macros using Clojure, and more importantly, recognize when you should be using macros in the first place. The Lisp "code-as-data" philosophy gives tremendous advantages to macro authors and

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users. You can use macros to evaluate code in other contexts, move computations to compile time, and create beautiful API layers. You don't need to wait on the Clojure language itself to add new features, you'll learn how to implement even the lowest-

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level features as macros. You'll step through representative samples of how to use macros in production libraries and applications, find clear details on how to construct macros, and learn pointers to avoid obstacles that often trip up macro amateurs.

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Clojure macros are more straightforward to use than metaprogramming features in many other languages, but they're different enough from normal programming to present challenges of their own.

Mastering Clojure Macros examines

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some of these issues, along with alternatives to macros where they exist. By the time you finish this book, you'll be thinking like a macro professional. What You Need: The book examples have been developed under Clojure 1.6.0, although earlier

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and later versions of Clojure may work as well. You'll want to use Leiningen 2.x in order to follow along with the examples that use external projects.

Awareness of design smells –  
indicators of common design



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problems — helps developers or software engineers understand mistakes made while designing, what design principles were overlooked or misapplied, and what principles need to be applied properly to address those smells through refactoring.

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Developers and software engineers may "know" principles and patterns, but are not aware of the "smells" that exist in their design because of wrong or mis-application of principles or patterns. These smells tend to contribute heavily to technical debt

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— further time owed to fix projects thought to be complete — and need to be addressed via proper refactoring. Refactoring for Software Design Smells presents 25 structural design smells, their role in identifying design issues, and potential

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refactoring solutions. Organized  
across common areas of software  
design, each smell is presented with  
diagrams and examples illustrating the  
poor design practices and the  
problems that result, creating a catalog  
of nuggets of readily usable

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information that developers or engineers can apply in their projects. The authors distill their research and experience as consultants and trainers, providing insights that have been used to improve refactoring and reduce the time and costs of managing software

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projects. Along the way they recount anecdotes from actual projects on which the relevant smell helped address a design issue. Contains a comprehensive catalog of 25 structural design smells (organized around four fundamental design

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principles) that contribute to  
technical debt in software projects  
Presents a unique naming scheme for  
smells that helps understand the cause  
of a smell as well as points toward its  
potential refactoring Includes  
illustrative examples that showcase the

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poor design practices underlying a  
smell and the problems that result

Covers pragmatic techniques for  
refactoring design smells to manage  
technical debt and to create and  
maintain high-quality software in  
practice Presents insightful anecdotes



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and case studies drawn from the  
trenches of real-world projects

What others in the trenches say about  
The Pragmatic Programmer... “ The  
cool thing about this book is that it ’ s  
great for keeping the programming  
process fresh. The book helps you to

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continue to grow and clearly comes from people who have been there. ”

—Kent Beck, author of Extreme

Programming Explained: Embrace

Change “ I found this book to be a

great mix of solid advice and

wonderful analogies! ” —Martin

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Fowler, author of Refactoring and UML Distilled “ I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost. ” —Kevin Ruland, Management

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Science, MSG-Logistics “ The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken

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Windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and

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expert mentors alike. ” —John  
Lakos, author of Large-Scale C++  
Software Design “ This is the sort of  
book I will buy a dozen copies of  
when it comes out so I can give it to  
my clients. ” —Eric Vought,  
Software Engineer “ Most modern

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books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really

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know their craft well. An excellent  
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Independent Consultant “ Since

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company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living. ” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “ I would like to see this issued

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to every new employee at my company.... ” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “ If I ’ m putting together a project, it ’ s the authors of this book that I want. . . . And failing that I ’ d settle for people who ’ ve

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read their book. ” —Ward  
Cunningham Straight from the  
programming trenches, The  
Pragmatic Programmer cuts through  
the increasing specialization and  
technicalities of modern software  
development to examine the core

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process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to

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adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts,

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assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and

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filled with entertaining anecdotes, thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new

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coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form



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Arduino Project Handbook, Volume

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Your Software

The Productive Programmer

Let Over Lambda

A Machine Made this Book

In the course of their 20+-year

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engineering careers, authors Brian Fitzpatrick and Ben Collins-Sussman have picked up a treasure trove of wisdom and anecdotes about how successful teams work together. Their conclusion? Even among people who have spent decades learning the technical side of their jobs, most haven't really focused on the human

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component. Learning to collaborate is just as important to success. If you invest in the "soft skills" of your job, you can have a much greater impact for the same amount of effort. The authors share their insights on how to lead a team effectively, navigate an organization, and build a healthy relationship with the users of your

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software. This is valuable information from two respected software engineers whose popular series of talks—including "Working with Poisonous People"—has attracted hundreds of thousands of followers.

How do we decide where to put ink on a page to draw letters and pictures? How

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can computers represent all the world's languages and writing systems? What exactly is a computer program, what and how does it calculate, and how can we build one? Can we compress information to make it easier to store and quicker to transmit? How do newspapers print photographs with grey tones using just

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black ink and white paper? How are paragraphs laid out automatically on a page and split across multiple pages? In A Machine Made this Book, using examples from the publishing industry, John Whittington introduces the fascinating discipline of Computer Science to the uninitiated.

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working at a computer more comfortable, and develop a plan to keep fit, healthy, and sharp for years to come. Small changes to your habits can improve your health--without getting in the way of your work. The Healthy Programmer gives you a daily plan of action that's incremental and iterative just like the software

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development processes you're used to. Every tip, trick, and best practice is backed up by the advice of doctors, scientists, therapists, nutritionists, and numerous fitness experts. We'll review the latest scientific research to understand how being healthy is good for your body and mind. You'll start by adding a small

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amount of simple activity to your day--no trips to the gym needed. You'll learn how to mitigate back pain, carpal tunnel syndrome, headaches, and many other common sources of pain. You'll also learn how to refactor your diet to properly fuel your body without gaining weight or feeling hungry. Then, you'll turn the

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exercises and activities into a pragmatic workout methodology that doesn't interfere with the demands of your job and may actually improve your cognitive skills. You'll also learn the secrets of prominent figures in the software community who turned their health around by making diet and exercise changes. Throughout, you'll

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track your progress with a "companion iPhone app". Finally, you'll learn how to make your healthy lifestyle pragmatic, attainable, and fun. If you're going to live well, you should enjoy it. Disclaimer This book is intended only as an informative guide for those wishing to know more about health issues. In no way is this book

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intended to replace, countermand, or conflict with the advice given to you by your own healthcare provider including Physician, Nurse Practitioner, Physician Assistant, Registered Dietician, and other licensed professionals. Keep in mind that results vary from person to person. This book is not intended as a substitute for

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and dietary recommendations without professional medical and/or Registered Dietician advice. A healthcare provider should be consulted if you are on medication or if there are any symptoms that may require diagnosis or medical attention. Do not change your diet if you are ill, or on medication except under the



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design, performance, and manageability of object-oriented code without altering its interfaces or behavior. "Refactoring" shows users exactly how to spot the best opportunities for refactoring and exactly how to do it, step by step.

Many claims are made about how certain tools, technologies, and practices improve

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software development. But which claims are verifiable, and which are merely wishful thinking? In this book, leading thinkers such as Steve McConnell, Barry Boehm, and Barbara Kitchenham offer essays that uncover the truth and unmask myths commonly held among the software development community. Their insights

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may surprise you. Are some programmers really ten times more productive than others? Does writing tests first help you develop better code faster? Can code metrics predict the number of bugs in a piece of software? Do design patterns actually make better software? What effect does personality have on pair

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programming? What matters more: how far apart people are geographically, or how far apart they are in the org chart? Contributors include: Jorge Aranda Tom Ball Victor R. Basili Andrew Begel Christian Bird Barry Boehm Marcelo Cataldo Steven Clarke Jason Cohen Robert DeLine Madeline Diep Hakan

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***Weeks" presents a meaningful exploration of seven languages within a single book. Rather than serve as a complete reference or installation guide, the book hits what's essential and***

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*unique about each language.*

**WORK EFFECT LEG CODE**

***\_p1***

***What Really Works, and Why  
We Believe It***

***The Agile Samurai***

***Managing Technical Debt***

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***Use Forensic Techniques to  
Arrest Defects, Bottlenecks,  
and Bad Design in Your  
Programs***

***Thinking Forth***