

INTERVIEWS WITH SOME OF THE TOP PROGRAMMERS OF OUR TIMES

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# CODERS AT WORK

REFLECTIONS ON THE CRAFT OF PROGRAMMING

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*"Peter Seibel asks the sort of questions only a fellow programmer would ask. Reading this book may be the next best thing to chatting with these illustrious programmers in person."*

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P E T E R   S E I B E L

# Coders At Work Reflections On The Craft Of Programming

**Joshua D. Carter**



## **Coders At Work Reflections On The Craft Of Programming:**

Coders at Work Peter Seibel, 2009-12-21 Peter Seibel interviews 15 of the most interesting 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 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 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 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 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 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 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 of the Mozilla Corporation; Brad Fitzpatrick Writer of LiveJournal OpenID memcached and Perlbal; Dan Ingalls Smalltalk implementor and designer; Simon Peyton Jones 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 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 UNIX; Jamie Zawinski Author of XEmacs and early Netscape Mozilla hacker.

**Coders at Work** Peter Seibel, 2009-09-16 Peter Seibel interviews 15 of the most interesting 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 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 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 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 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 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 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 of the Mozilla Corporation; Brad Fitzpatrick Writer of LiveJournal OpenID memcached and Perlbal; Dan Ingalls Smalltalk implementor and designer; Simon Peyton Jones 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 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 UNIX Jamie Zawinski Author of XEmacs and early Netscape Mozilla hacker **Coders** Clive Thompson, 2019-03-26 Hello world Facebook's algorithms shaping the news Self-driving cars roaming the streets Revolution on Twitter and romance on Tinder We live in a world constructed of code and coders are the ones who built it for us From acclaimed tech writer Clive Thompson comes a brilliant anthropological reckoning with the most powerful tribe in the world today computer programmers in a book that interrogates who they are how they think what qualifies as greatness in their world and what should give us pause They are the most quietly influential people on the planet and Coders shines a light on their culture In pop culture and media the people who create the code that rules our world are regularly portrayed in hackneyed simplified terms as ciphers in hoodies Thompson goes far deeper dramatizing the psychology of the invisible architects of the culture exploring their passions and their values as well as their messy history In nuanced portraits Coders takes us close to some of the great programmers of our time including the creators of Facebook's News Feed Instagram Google's cutting edge AI and more Speaking to everyone from revered 10X elites to neophytes back-end engineers and front-end designers Thompson explores the distinctive psychology of this vocation which combines a love of logic an obsession with efficiency the joy of puzzle solving and a superhuman tolerance for mind-bending frustration Along the way Coders thoughtfully ponders the morality and politics of code including its implications for civic life and the economy Programmers shape our everyday behavior When they make something easy to do we do more of it When they make it hard or impossible we do less of it Thompson wrestles with the major controversies of our era from the disruption fetish of Silicon Valley to the struggle for inclusion by marginalized groups In his accessible erudite style Thompson unpacks the surprising history of the field beginning with the first coders brilliant and pioneering women who despite crafting some of the earliest personal computers and programming languages were later written out of history Coders introduces modern crypto hackers fighting for your privacy AI engineers building eerie new forms of machine cognition teenage girls losing sleep at 24/7 hackathons and unemployed Kentucky coal miners learning a new career At the same time the book deftly illustrates how programming has become a marvelous new art form a source of delight and creativity not merely danger To get as close to his subject as possible Thompson picks up the thread of his own long abandoned coding skills as he reckons in his signature highly personal style with what superb programming looks like To understand the world today we need to understand code and its consequences With Coders Thompson gives a definitive look into the heart of the machine **From Code to Computation** Set Lonnert, 2026-01-01 If you've written code and wrestled with algorithms you know the satisfaction of making a machine do exactly what you tell it But something fundamental is shifting in how we work with computers and the best way to understand that shift is to build your way through it This book

explores computation's evolution from predictable algorithms to adaptive systems through hands on projects that demand both technical skill and conceptual understanding You won't just read about virtual machines or language models You'll implement them experiment with them and develop intuition about when each approach makes sense Each project builds on the last creating a learning journey from mechanical precision to fluid reasoning The project based approach means you'll spend more time building than reading more time experimenting than memorizing You'll encounter challenges that require creative problem solving debug systems that behave in unexpected ways and gradually develop the kind of judgment that only comes from direct engagement with computational systems The book assumes working knowledge of Python and C at an intermediate level along with familiarity with basic computer science concepts but the real prerequisite is willingness to learn through making If you're ready to expand beyond writing code to reasoning about systems and to do so by building rather than just studying this book is your guide

**Composing Software** Eric Elliott, 2024-09-30 Unlock the power of functional programming in JavaScript with this detailed guide Master essential techniques like function composition immutability and higher order functions to create modular maintainable code that's easy to understand and reuse Key Features An exploration of functional programming in JavaScript from basics to advanced concepts An extensive focus on real world applications problem solving techniques An introduction to both functional and object oriented programming for a holistic view Book Description This book delves into functional programming and composition techniques in JavaScript starting with core concepts like pure functions shared state avoidance and higher order functions to build modular maintainable code Early chapters explore the fundamentals of functional programming immutability and its growing influence in the JavaScript community You'll learn essential topics such as function composition currying and higher order functions as well as advanced concepts like abstract data types functors and monads The book discusses the evolution of functional programming its role in modern software development and addresses challenges like the software crisis and composing with classes You'll learn essential topics like object oriented programming focusing on factory functions functional mixins and object composition You'll also understand why traditional classes complicate composition and discover strategies for creating custom data types lenses and transducers The book also covers best practices emphasizing clean reusable code and avoiding anti patterns like excessive mocking By the end you'll be ready to apply functional programming techniques to tackle complex design challenges and write more maintainable JavaScript code What you will learn Grasp core principles for writing clean efficient code Combine functions to create complex operations with ease Write functions that are predictable and easy to test Eliminate shared state and side effects for more reliable code Use functions as arguments or return values for flexibility Learn data transformations and side effect management Who this book is for The book is ideal for JavaScript developers who want to deepen their understanding of functional programming and software composition Familiarity with JavaScript basics is required This book is suitable for both intermediate and advanced programmers who want to write more

maintainable and modular code

**Recoding Gender** Janet Abbate, 2017-09-08 The untold history of women and computing how pioneering women succeeded in a field shaped by gender biases Today women earn a relatively low percentage of computer science degrees and hold proportionately few technical computing jobs Meanwhile the stereotype of the male computer geek seems to be everywhere in popular culture Few people know that women were a significant presence in the early decades of computing in both the United States and Britain Indeed programming in postwar years was considered woman's work perhaps in contrast to the more manly task of building the computers themselves In *Recoding Gender* Janet Abbate explores the untold history of women in computer science and programming from the Second World War to the late twentieth century Demonstrating how gender has shaped the culture of computing she offers a valuable historical perspective on today's concerns over women's underrepresentation in the field Abbate describes the experiences of women who worked with the earliest electronic digital computers Colossus the wartime codebreaking computer at Bletchley Park outside London and the American ENIAC developed to calculate ballistics She examines postwar methods for recruiting programmers and the 1960s redefinition of programming as the more masculine software engineering She describes the social and business innovations of two early software entrepreneurs Elsie Shutt and Stephanie Shirley and she examines the career paths of women in academic computer science Abbate's account of the bold and creative strategies of women who loved computing work excelled at it and forged successful careers will provide inspiration for those working to change gendered computing culture

**100 Things You Don't Wanna Know about Coders at Work** Joseph Finning, 2013-02 In this book we have hand picked the most sophisticated unanticipated absorbing if not at times crackpot original and musing book reviews of *Coders at Work: Reflections on the Craft of Programming* Don't say we didn't warn you these reviews are known to shock with their unconventionality or intimacy Some may be startled by their biting sincerity others may be spellbound by their unbridled flights of fantasy Don't buy this book if 1 You don't have nerves of steel 2 You expect to get pregnant in the next five minutes 3 You've heard it all

**The Philosophical Programmer** Daniel Kohanski, 1998 In the tradition of *The Existential Pleasures of Engineering* this meditative and enlightening work creates a new philosophical approach to programming

**The Clean Coder** Robert C. Martin, 2011 Presents practical advice on the disciplines techniques tools and practices of computer programming and how to approach software development with a sense of pride honor and self respect

**Programmers and Managers** P. Kraft, 1977-07-18 Norbert Wiener perhaps better than anyone else understood the intimate and delicate relationship between control and communication that messages intended as commands do not necessarily differ from those intended simply as facts Wiener noted the paradox when the modem computer was hardly more than a laboratory curiosity Thirty years later the same paradox is at the heart of a severe identity crisis which confronts computer programmers Are they primarily members of management acting as foremen whose task it is to ensure that orders emanating from executive suites are faithfully translated into comprehensible messages Or are they perhaps simply

engineers preoccupied with the technical difficulties of relating software to hardware and vice versa Are they aware furthermore of the degree to which their work whether as manager or engineer routinizes the work of others and thereby helps shape the structure of social class relationships I doubt that many of us who lived through the first heady and frantic years of software development at places like the RAND and System Development Corporations ever took time to think about such questions The science fiction like setting of mysterious machines blinking lights and torrents of numbers served to awe outsiders who could only marvel at the complexity of it all We were insiders who constituted a secret society into which only initiates were welcome So today I marvel at the boundless audacity of a rank outsider in writing a book like **Programmers and Managers**

**A Programmer's Rantings: On Programming-Language Religions, Code Philosophies, Google Work Culture, and Other Stuff** Steve Yegge, 2012-12-01 This book grew out of a lot of angst Well and wine Put enough angst in me and I'll start ranting Pour in some wine and the rants get mean and funny I still go back and read these posts now and then and I always laugh I was so mean My angst grew out of traveling different roads than most programmers Those roads forced me to see the world differently Now I see all sorts of patterns that many experienced programmers fail to see because well to put it bluntly they're stuck in ruts Over the past 25 years I've done a bunch of dramatically different types of programming and I've also written far more code than any programmer ever should The long roads I've traveled have basically given me a sixth sense I see dead people And it sucks If you're ever unlucky enough to acquire a dreadful sixth sense there are really only two choices you can be angry and depressed about it or you can laugh about it So I try to laugh It's hard but I'm getting better at it The wine helps Practice helps too You need to get in the habit of laughing at yourself at others at the crazy world we live in or in time you'll just stop laughing altogether When I first started ranting I was the ugly American stomping around in my posts and essentially yelling What the hell is wrong with all you people But over the next ten years or so I like to think I've grown into more of an amateur software anthropologist I now take cultural relativism seriously and I try hard not to judge people who think differently from me Of course I don't mind poking fun at them because I don't mind people poking fun at me And ultimately I would like to convince undecided programmers to share my view of the programming world because programming works best if everyone nearby does it the same way So I'll continue to argue that my view which I've recently taken to calling software liberalism is a perfectly valid and perhaps even preferable way to do a lot of software development Converting everyone to be more liberal is doomed to fail of course But even so I hope I can still help people in radically different software cultures to understand each other better I'm going to keep ranting because it appears to be the only way to make a message sink in to a very large audience Some people still tell me that my blog posts are too long They tell me I could have made my point in under a hundred words I have noticed that this complaint comes most often from people who disagree with me They're really just saying they want less work to voice their disagreement But even some folks who agree with me find the posts too long to carry their attention and they complain too They're missing the

point though The posts aren't too long You need a certain minimum heft to penetrate Through years of trial and error I've found that the best way to get a lot of people to listen to you is to tell them a story And you can't spin a good yarn without settling in and enjoying the ride So that's what this book is It's really a bunch of stories Each might take the form of an article essay guide rant or occasionally a fiction tale But behind the structure each one of them is sharing a story Even if you don't always agree I'm hoping you'll at least find the stories entertaining and with luck sometimes even eye opening The guys at Hyperink chose which of my posts to include by and large and they also came up with the overall chapter organization I made a couple of tweaks but what you're looking at is largely their vision of how to curate this stuff into a cohesive book I think they did an admirable job I hope you enjoy the journey as much as I did Steve Yegge August 2012

**Programmers at Work** Susan M. Lammers, 2006 *Understanding Software* Max Kanat-Alexander, 2017-09-29 Software legend Max Kanat Alexander shows you how to succeed as a developer by embracing simplicity with forty three essays that will help you really understand the software you work with About This Book Read and enjoy the superlative writing and insights of the legendary Max Kanat Alexander Learn and reflect with Max on how to bring simplicity to your software design principles Discover the secrets of rockstar programmers and how to also just suck less as a programmer Who This Book Is For Understanding Software is for every programmer or anyone who works with programmers If life is feeling more complex than it should be and you need to touch base with some clear thinking again this book is for you If you need some inspiration and a reminder of how to approach your work as a programmer by embracing some simplicity in your work again this book is for you If you're one of Max's followers already this book is a collection of Max's thoughts selected and curated for you to enjoy and reflect on If you're new to Max's work and ready to connect with the power of simplicity again this book is for you What You Will Learn See how to bring simplicity and success to your programming world Clues to complexity and how to build excellent software Simplicity and software design Principles for programmers The secrets of rockstar programmers Max's views and interpretation of the Software industry Why Programmers suck and how to suck less as a programmer Software design in two sentences What is a bug Go deep into debugging In Detail In *Understanding Software* Max Kanat Alexander Technical Lead for Code Health at Google shows you how to bring simplicity back to computer programming Max explains to you why programmers suck and how to suck less as a programmer There's just too much complex stuff in the world Complex stuff can't be used and it breaks too easily Complexity is stupid Simplicity is smart *Understanding Software* covers many areas of programming from how to write simple code to profound insights into programming and then how to suck less at what you do You'll discover the problems with software complexity the root of its causes and how to use simplicity to create great software You'll examine debugging like you've never done before and how to get a handle on being happy while working in teams Max brings a selection of carefully crafted essays thoughts and advice about working and succeeding in the software industry from his legendary blog Code Simplicity Max has crafted forty three essays which have the power to help you avoid

complexity and embrace simplicity so you can be a happier and more successful developer Max's technical knowledge insight and kindness has earned him code guru status and his ideas will inspire you and help refresh your approach to the challenges of being a developer Style and approach Understanding Software is a new selection of carefully chosen and crafted essays from Max Kanat Alexander's legendary blog call Code Simplicity Max's writing and thoughts are great to sit and read cover to cover or if you prefer you can drop in and see what you discover new every single time **Code Craft** Pete

Goodliffe,2006-12-06 You know how to write code that works but what about code that's well written and easy to understand And robust and bug free If other programmers looked at your handiwork would they be able to figure out the code's logic and purpose Exceptional programmers have more than just technical know how they adopt the right approach and attitude to development Code Craft will help take your programming beyond writing correct code to writing great code thus turning you into a true programming professional or enhancing your existing professional skills With language agnostic advice that's relevant to all developers Code Craft covers code writing concerns such as presentation style variable naming error handling and security And it tackles broader real world programming issues like effective teamwork development processes and documentation Each chapter ends with a Q A section that reviews key concepts to get you thinking like an expert making it an especially great reference for newer programmers who want to work professionally and efficiently as part of a team This survival guide for the software factory will show you how to Write good code when the world's not helping you Avoid disasters and distractions in the workplace Assess your abilities accurately and determine ways to improve Adopt productive attitudes and follow best practices There's little more valuable than the advice of a true programming professional You'll find Code Craft to be clear practical and entertaining throughout and a great way to take your code and your career to the next level *The Robert C. Martin Clean Code Collection (Collection)* Robert Martin,2011-12-09 The Robert C Martin Clean Code

Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what's right about that code and what's wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between good and

bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means

**New Programmer's Survival Manual** Joshua D. Carter,2011-11-15 It s your first day on the new job You ve got the programming chops you re up on the latest tech you re sitting at your workstation now what New Programmer s Survival Manual gives your career the jolt it needs to get going essential industry skills to help you apply your raw programming talent and make a name for yourself It s a no holds barred look at what really goes on in the office and how to not only survive but thrive in your first job and beyond Programming at industry level requires new skills you ll build programs that dwarf anything you ve done on your own This book introduces you to practices for working on large scale long lived programs at a professional level of quality You ll find out how to work efficiently with your current tools and discover essential new tools But the tools are only part of the story you ve got to get street smart too Succeeding in the corporate working environment requires its own savvy You ll learn how to navigate the office work with your teammates and how to deal with other people outside of your department You ll understand where you fit into the big picture and how you contribute to the company s success You ll also get a candid look at the tougher aspects of the job stress conflict and office politics Finally programming is a job you can do for the long haul This book helps you look ahead to the years to come and your future opportunities either as a programmer or in another role you grow into There s nothing quite like the satisfaction of shipping a product and knowing I built that Whether you work on embedded systems or web based applications in trendy technologies or legacy systems this book helps you get from raw skill to an accomplished professional

**Coding** Alan GRID,2020-11-19 Do you Want to Start Writing Your Own Programs in a couple of weeks What Advantages can you have over others by Learning to Code Learning to code may not be easy if you don t have an updated guide Taking the first steps by following the right guide can exponentially speed up the learning process and set up your project taking you straight to the point of delivery Alan Grid summarizes his many years of experience working with Tech Giants as a software developer and programmer in this guide to help you improve effectively your coding skills to develop your project Learning how to Code will provide you Job Security In the same way being able to pursue a career as a coder will give you a significant amount of job security Coders and programmers are in demand throughout the modern world leading to a lot of jobs in the field Coding is Fun Imagine having the skills to be able to build your websites from scratch to be able to create responsive mobile games

and to be able to program data analysis packages If you learn how to code you will be able to do all of this and more in a fun engaging way Some of the topics covered in the book Why Python has been proclaimed by the most Professional Techs as the best Scripting Language Why is Python so popular in Machine Learning Why is Java crucial in 2021 Discover the 7 Best Development Tools of Java Why You Should at Least Get Familiar with C Even if You Plan to Use Higher Level Languages as your Tool of Choice Develop Firmware for Embedded Systems with C much more Don t waste precious time GET THE BOOK and Start your Project **Becoming a Better Programmer** Pete Goodliffe,2014-10-03 If you re passionate about programming and want to get better at it you ve come to the right source Code Craft author Pete Goodliffe presents a collection of useful techniques and approaches to the art and craft of programming that will help boost your career and your well being The book s standalone chapters span the range of a software developer s life dealing with code learning the trade and improving performance with no language or industry bias *Programmers at Work* SUSAN M. LAMMERS,1986

Clean Code Elijah Lewis,2020-01-10 We all live in a digital world of information technology In this technology driven world computer software and applications are everywhere around us Have you ever wondered how different applications and software work together efficiently This book will be a comprehensive guide to make users understand how coding practices work in a few different computer programs and software This book provides details about programming concepts the history of programming the importance of programming in daily life how programming concepts are evolving in our daily life and the best practices of using programming languages We also discuss the best programming languages available in the world different components of a program how programs are improved in their efficiency learning programming for a bright carrier choice and the future of programming The programming is involved everywhere around us even though many people are not aware of it People work on digital platforms all the time and they are using different kinds of programs They do not have a deep understanding of programming concepts This book is a comprehensive guide to help you understand how different programming concepts work together and how different applications are made by using effective programming strategies this book will be a comprehensive guide to understand all these concepts This book will depict all the concepts of the programming languages from beginning to end It will be a comprehensive and complete guide to understand the use of the best available sources to make an application that will work effectively and efficiently on the intended platform Writing clean code is a skill that all computer programmers will want to master

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### **Coders At Work Reflections On The Craft Of Programming Introduction**

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