JEFF ATWOOD

Effective Programming

More than writing code

Effective Programming More Than Writing Code Hfwebs

Gregory T Brown

Effective Programming More Than Writing Code Hfwebs:

  Effective Programming Jeff Atwood,2012-07-04 ABOUT THE BOOK Jeff Atwood began the Coding Horror blog in 2004 and is convinced that it changed his life He needed a way to keep track of software development over time whatever he was thinking about or working on He researched subjects he found interesting then documented his research with a public blog post which he could easily find and refer to later Over time increasing numbers of blog visitors found the posts helpful relevant and interesting Now approximately 100 000 readers visit the blog per day and nearly as many comment and interact on the site Effective Programming More Than Writing Code is your one stop shop for all things programming Jeff writes with humor and understanding allowing for both seasoned programmers and newbies to appreciate the depth of his research From such posts as The Programmer s Bill of Rights and Why Cant Programmers Program to Working With the Chaos Monkey this book introduces the importance of writing responsible code the logistics involved and how people should view it more as a lifestyle than a career TABLE OF CONTENTS Introduction The Art of Getting Shit Done Principles of Good Programming Hiring Programmers the Right Way Getting Your Team to Work Together The Batcave Effective Workspaces for Programmers Designing With the User in Mind Security Basics Protecting Your Users Data Testing Your Code So it Doesn t Suck More Than it Has To Building Managing and Benefiting from a Community Marketing Weasels and How Not to Be One Keeping Your Priorities Straight EXCERPT FROM THE BOOK As a software developer you are your own worst enemy The sooner you realize that the better off you ll be I know you have the best of intentions We all do We re software developers we love writing code It s what we do We never met a problem we couldn t solve with some duct tape a jury rigged coat hanger and a pinch of code But Wil Shipley argues that we should rein in our natural tendencies to write lots of code The fundamental nature of coding is that our task as programmers is to recognize that every decision we make is a trade off To be a master programmer is to understand the nature of these trade offs and be conscious of them in everything we write In coding you have many dimensions in which you can rate code Brevity of codeFeaturefulnessSpeed of executionTime spent codingRobustnessFlexibility Now remember these dimensions are all in opposition to one another You can spend three days writing a routine which is really beautiful and fast so you ve gotten two of your dimensions up but you ve spent three days so the time spent coding dimension is way down So when is this worth it How do we make these decisions The answer turns out to be very sane very simple and also the one nobody ever listens to Start with brevity Increase the other dimensions as required by testing I couldn t agree more I ve given similar advice when I exhorted developers to Code Smaller And I m not talking about a reductio ad absurdum contest where we use up all the clever tricks in our books to make the code fit into less physical space I m talking about practical sensible strategies to reduce the volume of code an individual programmer has to read to understand how a program works Here s a trivial little example of what I m talking about if s String Empty if s It seems obvious to me that the latter case is buy the book to read more   **Effective Programming: More Than Writing**

Code Jeff Atwood,2012-07-24 Jeff Atwood began the Coding Horror blog in 2004 and is convinced that it changed his life He needed a way to keep track of software development over time whatever he was thinking about or working on He researched subjects he found interesting then documented his research with a public blog post which he could easily find and refer to later Over time increasing numbers of blog visitors found the posts helpful relevant and interesting Now approximately 100 000 readers visit the blog per day and nearly as many comment and interact on the site Effective Programming More Than Writing Code is your one stop shop for all things programming Jeff writes with humor and understanding allowing for both seasoned programmers and newbies to appreciate the depth of his research From such posts as The Programmer s Bill of Rights and Why Cant Programmers Program to Working With the Chaos Monkey this book introduces the importance of writing responsible code the logistics involved and how people should view it more as a lifestyle than a career *The Practice of Programming* Brian W. Kernighan,Rob Pike,1999-02-09 With the same insight and authority that made their book The Unix Programming Environment a classic Brian Kernighan and Rob Pike have written The Practice of Programming to help make individual programmers more effective and productive The practice of programming is more than just writing code Programmers must also assess tradeoffs choose among design alternatives debug and test improve performance and maintain software written by themselves and others At the same time they must be concerned with issues like compatibility robustness and reliability while meeting specifications The Practice of Programming covers all these topics and more This book is full of practical advice and real world examples in C C Java and a variety of special purpose languages It includes chapters on debugging finding bugs quickly and methodically testing guaranteeing that software works correctly and reliably performance making programs faster and more compact portability ensuring that programs run everywhere without change design balancing goals and constraints to decide which algorithms and data structures are best interfaces using abstraction and information hiding to control the interactions between components style writing code that works well and is a pleasure to read notation choosing languages and tools that let the machine do more of the work Kernighan and Pike have distilled years of experience writing programs teaching and working with other programmers to create this book Anyone who writes software will profit from the principles and guidance in The Practice of Programming *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   How I've Really Learned Programming? Moaml Mohmmed,2019-09 How I ve Really Learned Programming Here are the things you should keep in mind while learning to program 1 You ll fail more often than not don t take it too seriously Everybody fails when they try something new It s not something that one should have to tell you but I ll say it anyway 2 Practice is more important than reading books and taking courses There are several great courses for starters on coursera org about programming for beginners that I believe you should begin with What is more important than study material is practice material and assignments Truse me you will never become a good programmer by reading more You need to start writing code 3 Solving problems is more than just hitting keys on your keyboard Often we see in movies how programmers are given a problem and they immediately start typing things down In real world it doesn t work this way It s almost always a good idea to try to solve a problem first on paper and then start writing code 4 Getting the basics of programming and aptitude to make logic is more important than choice of language Although I m one of those people who are a bit choosy about a programming language but that s a trait you should defer acquiring Now to answer another question that you asked weather you should learn to code first or understand algorithms and data structures I suggest that you get in the habit of writing basic code in any language then start studying algorithms and data structures Once you know a bit of programming you can study algorithms and keep improving on your programming skills A program is a set of instructions written in a language such as BASIC understandable by the computer to perform a particular function on the computer A well written program could be parceled well to form an application package customized for solving specific type of problem on the computer system A computer programmer is computer scientist a professional skilled in using constructs of programming languages to develop executable and acceptable computer programs A software developer is a programmer Programmers often work hand in hand with system analysts on large projects Programming languages are artificial notational languages created or developed to be used in preparing coded instructions on the computer for later execution by the computer They are usually composed of series of usage rules syntax that determine the meaning semantics of expressions written in the language Each programming language comes handy with its own translator i e interpreter or compiler as the case may be Programming Programming is the art of developing computer programs with the aid of selected programming language by a computer programmer It is a special skill whose quality is tested by the quality of the resulting program or software In

programming programming stages must be properly followed i e from problem definition to maintenance and review I am constantly asked the following Which programming language should I learn if I m new Which programming language is most in demand for jobs What s the most popular programming language **Programming Beyond Practices** Gregory T Brown,2016-10-06 Writing code is the easy part of your work as a software developer This practical book lets you explore the other 90% everything from requirements discovery and rapid prototyping to business analysis and designing for maintainability Instead of providing neatly packaged advice from on high author Gregory Brown presents detailed examples of the many problems developers encounter including the thought process it takes to solve them He does this in an unusual and entertaining fashion by making you the main character in a series of chapter length stories As these stories progress the examples become more complex and your responsibilities increase Together these stories take you on a journey that will make you question and refine the way you think about and work on software projects Steps in this unique journey include Using prototypes to explore project ideas Spotting hidden dependencies in incremental changes Identifying the pain points of service integrations Developing a rigorous approach towards problem solving Designing software from the bottom up Data modeling in an imperfect world Gradual process improvement as an antidote for over commitment The future of software development

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