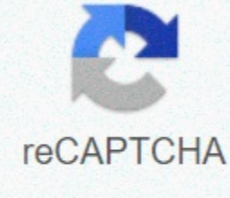




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# Clean code a handbook of agile software craftsmanship pdf github

Notes on the book: "Clean Code - A Handbook of Agile Software Craftsmanship" written by Robert C. Martin Foreword Introduction Foreword In software, 80% or more of what we do is quaintly called "maintenance": the act of repair. Good software practice requires such discipline: focus, presence of mind, and thinking The 5S philosophy comprises these concepts (Total Productive Maintenance - 1951): Seiri (organization): Knowing where things are—using approaches such as suitable naming—is crucial Seiton (tidiness): There is an old American saying: A place for everything, and everything in its place. A piece of code should be where you expect to find it - and, if not, you should re-factor to get it there. Seiso (cleaning): Remove unused things (comments, etc). Get rid of them Seiketsu (standardization): The group agrees about how to keep the workplace clean. Shutsuke (self-discipline): Follow the practices, frequently reflect on one's work and be willing to change You should name a variable using the same care with which you name a first-born child. "The code is the design" and "Simple code" are their mantras. We are honest about the state of our code because code is never perfect. Introduction Learning to write clean code is hard work. It requires more than just the knowledge of principles and patterns. You must practice it yourself, and watch yourself fail. This book will make you work, and work hard. What kind of work will you be doing? You'll be reading code, lots of code. And you will be challenged to think about what's right about that code and what's wrong with it. This book into three parts: First part: The first several chapters describe the principles, patterns, and practices of writing clean code. Second part: It consists of several case studies of ever-increasing complexity. Each case study is an exercise in cleaning up some code of transforming code that has some problems into code that has fewer problems. Third part: It is a single chapter containing a list of heuristics and smells gathered while creating the case studies. Chapter 1 - Clean Code There will be code Programmers simply won't be needed because business people will generate programs from specifications => Nonsense! We will never be rid of code, because code represents the details of the requirements Bad code It was the bad code that brought the company down. Have you ever been significantly impeded by bad code? If you are a programmer of any experience then you've felt this impediment many times. So then, why did you write it? Were you trying to go fast? Were you in a rush? We've all said we'd go back and clean it up later. Later equals never. Attitude Why does this happen to code? Why does good code rot so quickly into bad code? What about the requirements? What about the schedule? What about the stupid managers and the useless marketing types? Don't they bear some of the blame? No! Most managers want good code, even when they are obsessing about the schedule. They may defend the schedule and requirements with passion, but that's their job. It's your job to defend the code with equal passion. The Primal Conundrum The only way to make the deadline - \* the only way to go fast \* - is to keep the code as clean as possible at all times. The Art of Clean Code? Let's say you believe that messy code is a significant impediment. "How do I write clean code?" It's no good trying to write clean code if you don't know what it means for code to be clean! Clean code is a lot like painting a picture. Able to recognize clean code from dirty code does not mean that we know how to write clean code! Writing clean code requires using myriad little techniques. This "code-sense" is the key. In short, a programmer who writes clean code is an artist. What is Clean Code? Clean code is pleasing to read. Clean code exhibits close attention to detail. Clean code makes it easy for other people to enhance it. There is a difference between code that is easy to read and code that is easy to change. Code, without tests, is not clean. Smaller is better. Keep it simple and orderly. The beautiful code makes the language look like it was made for the problem! We are Authors The ratio of time spent reading vs. writing is well over 10:1. To write new code we need to read the old one. Chapter 2 - Meaningful Names Names are everywhere in software. We name our variables, our functions, our arguments, classes, and packages... So, we need to follow some simple rules for creating good names. Use Intention-Revealing Names The name should answer all the big questions. It should tell you: Why it exists? What it does? How it is used? The name d reveals nothing: int d; // elapsed time in days We should choose a name that specifies what is being measured and the unit of that measurement: int elapsedTimeInDays; int daysSinceCreation; int daysSinceModification; int fileAgeInDays; Choosing names that reveal intent can make it much easier to understand and change code. What is the purpose of this code? public List getThem() { List list1 = new ArrayList(); for (int[] x : theList) if (x[0] == 4) list1.add(x); return list1; } The code implicitly requires that we know the answers to questions such as: What kinds of things are in theList? What is the significance of the zeroth subscript of an item in theList? What is the significance of the value 4? How would I use the list being returned? We can improve the code: public List getFlaggedCells() { List flaggedCells = new ArrayList(); for (int[] cell : gameBoard) if (cell[STATUS\_VALUE] == FLAGGED) flaggedCells.add(cell); return flaggedCells; } or // Class Cell instead of ints // Function isFlagged to hide the magic numbers public List getFlaggedCells() { List flaggedCells = new ArrayList(); for (Cell cell : gameBoard) if (cell.isFlagged()) flaggedCells.add(cell); return flaggedCells; } With these simple name changes, it's not difficult to understand what's going on. This is the power of choosing good names. Avoid Disinformation Do not refer to a grouping of accounts as an accountList unless it's actually a List. accountGroup or bunchOfAccounts or just plain accounts would be better. Avoid use of lower-case L or uppercase O as variable names, especially in combination. They look almost entirely like the constants one and zero. int a = 1; if ( O == 1 ) a = 01; else l = 01; Make Meaningful Distinctions Consider: public static void copyChars(char a1[], char a2[]) { for (int i = 0; i < a1.length; i++) { a2[i] = a1[i]; } } This function reads much better when source and destination are used for the argumentnames. Noise words are redundant, avoid use words: info, data, a, an, the How are the programmers supposed to know which of these functions to call? getActiveAccount(); getActiveAccounts(); getActiveAccountInfo(); Distinguish names in such a way that the reader knows what the differences offer. moneyAmount is indistinguishable from money \*customerInfo( is indistinguishable from customer accountData is indistinguishable from account theMessage is indistinguishable from message Use Pronounceable Names If you can't pronounce it, you can't discuss it. Compare class DtaRcrd102 { private Date genymdhms; private Date modymdhms; private final String psqjzt = "102"; /\* ... \*/ }; to class Customer { private Date generationTimestamp; private Date modificationTimestamp; private final String recordId = "102"; /\* ... \*/ }; Use Searchable Names If a variable or constant might be seen or used in multiple places in a body of code, it is imperative to give it a search-friendly name. Compare for (int j=0; j

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