
Harold Abelson

Struktur und Interpretation von Computerprogrammen: Eine Informatik-Einführung



Title: Struktur und Interpretation von Computerprogrammen: Eine Informatik-Einführung

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Format: Paperback

Language: German

Pages: 682

Publisher: , 0

ISBN: 3540423427

Format: PDF / Kindle / ePub

Size: 8.3 MB

Download: allowed

Description

Die Übersetzung der bewährten Einführung in die Informatik, entstanden am Massachusetts Institute of Technology (MIT), wird seit Jahren erfolgreich in der Lehre eingesetzt. Schritt für Schritt werden Konstruktion und Abstraktion von Daten und Prozeduren dargestellt. Von der Modularisierung bis zum Problemlösen mit Registermaschinen werden verschiedene Programmierparadigmen entwickelt und die effektive Handhabung von Komplexität gezeigt. Als Programmiersprache wird SCHEME verwendet, ein Dialekt von LISP. Alle Programme laufen in jeder dem IEEE-Standard entsprechenden SCHEME-Implementierung.

Insightful reviews

Christian Brumm: Excellent book! I read only like 1/3 of it for an undergrad course. I was very happy back then when I realized that the slides that didn't make any sense at all were just excerpts from the book and the actual text was pretty good to understand.

Well written, broad and deep, though not very practical (in terms of direct applicability in practice) introduction to Computer Science and especially Programming. Almost philosophical in some parts, which I liked.

Have to read the whole thing one day ...

Matthew: Not too shabby, the first four chapters are a superb account of programming from an academic viewpoint. I can now see why people rave about this book so much, the examples were very well thought out and showed the true power and flexibility of scheme. I did not enjoy reading the last chapter though which was a mire of the technical details of interpreters and compilers, this part of the book took away from the beautiful presentation of the general high level ideas of how computer programs should be structured and instead provided dull concrete examples of how to implement a interpreter and compiler - neither of which I cared for.

Lisp is often seen as being quite a mythical language and while powerful and interesting to program in - it is esoteric. Many modern languages which have been obviously inspired by lisp sacrifice being slightly more specific for increased usability and this is why I would say that this book is not really suitable for a first course in programming. It is a much better follow up once you have a better understanding of programming paradigms.

On the whole if you have a vague interest in programming languages and their semantics this book is definitely worth checking out, it's approach is very different from many other books. It does suffer slightly from being written in 1985 as it is not aware of modern language developments but the ideas still hold strong.

Quazi: Mastery of the subject matter in this book separates budding computer scientists from mere programmers.

John Chilton: approximately a decade in the past whilst I first all started collage as a large eyed

laptop technological know-how student, this ebook instilled a deep ardour for programming into me. To this day, i will be able to choose up and reread any component to this ebook and that keenness is reinvigorated. there were volumes written in regards to the brilliance and sweetness of this ebook by means of humans smarter than me. each piece of this compliment is deserved, and that i do not have so as to add to that chorus. i'd as an alternative prefer to point out a distinct aspect of what makes this e-book so great. This booklet is fun, this ebook makes the paintings of programming fun. My favourite fiction books are by way of a long way and away the Harry Potter books. i don't locate the prose of those books all that great, the motion isn't really totally amazing, and the neither the characters nor the plot are fairly special. So what makes the Harry Potter books so great? i believe it's the approach J.K. Rowling's describes magic, and the realm that's outfitted up round magic. She places you within the footwear of those characters, and captures how remarkable it'd be in order to do magic. Abelson and Sussman do an analogous factor with SICP, however the magic is real. an individual can decide up this e-book and a Scheme interpreter and do nice and magical things. This ebook made the collage of Minnesota my Hogwarts, and that i cherish it for that. I needs to now lay one heavy criticism upon this book, although fairly now not at the ebook itself, yet relatively the context during which it truly is commonly used. This ebook isn't applicable for introductory desktop technological know-how courses. i used to be a instructing assistant for 8 semesters for the introductory machine technological know-how direction on the collage of Minnesota that makes use of this book. Over that time, I went from considering this ebook was once excellent for this course, to strongly pondering this booklet used to be perfect, to a gentle attention that this ebook isn't strong in any respect for the course. I spent a now not insignificant volume time studying is cognitive studying thought whereas in graduate school. What I discovered from literature in that box paired with my very own observations are what lead me to ultimately observe this booklet isn't applicable for an introductory course. a undeniable phase of individuals are influenced via the abstract, and study from basic principles. i believe this publication is ideal for those people. Professors are likely to disproportionately be encouraged during this fashion, and that i imagine this bills for approval for this book. This isn't really a majority of individuals however, this isn't even a majority of scholars who graduate with computing device technology degrees. A python or ruby ebook concerned about practical, genuine international examples and examples that experience a graphical or tactile part in a roundabout way might do a tremendously greater activity motivating machine technological know-how for the common student. i believe loads of professors don't realize this. extra distributively though, there are numerous professors who observe this yet proceed to suggest this booklet simply because they think it weeds out the folk that can't lower it in desktop science. it is a profoundly improper and chases lots of people clear of the sector who may have much so as to add after they left the confines of academia and it self choosing concentrate on the abstractly motivated. If academia didn't clear out and choose during this manner, i feel you'll see extra varied inhabitants of most sensible tier programmers. i believe you'll see extra programmers with social skills, programmers with much less arrogance. This in flip might aid the full community. requesting aid will be much less stigmatized, "not constructed here" will be much less of a problem. criteria our bodies constructing requirements might most probably have extra people who specialize in the sensible implications. i've got in spite of the fact that strayed wildly into the sector of whole speculation. What i'm attempting to say eventually is that i feel it is a needs to learn booklet for computing device technological know-how students, yet i feel it might be extra applicable for 1/2 a junior point path on programming paradigms than the entire of an introductory direction on programming extra generally.

Michael: a piece of art. SICP will make you a greater programmer within the comparable manner that interpreting Dostoevsky will make you a greater writer.

Keith: Twenty hours of video lecture by way of Abelson and Sussman can be found via MIT Open CourseWare, although it really is worthy noting that those periods used the 1st variation of the textbook.

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