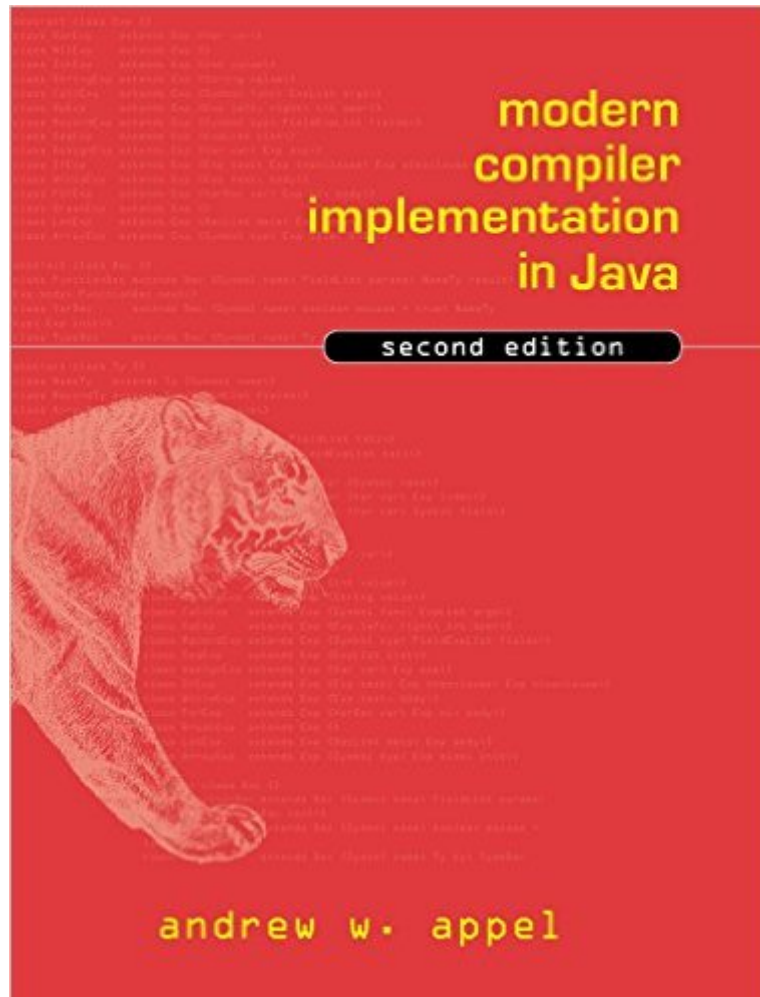


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# Modern Compiler Implementation In Java



## Synopsis

This textbook describes all phases of a compiler: lexical analysis, parsing, abstract syntax, semantic actions, intermediate representations, instruction selection via tree matching, dataflow analysis, graph-coloring register allocation, and runtime systems. It includes thorough coverage of current techniques in code generation and register allocation, and the compilation of functional and object-oriented languages. The most accepted and successful techniques are described and illustrated with actual Java<sup>TM</sup>® classes. The first part is suitable for a one-semester first course in compiler design. The second part; which includes the compilation of object-oriented and functional languages, garbage collection, loop optimization, SSA form, instruction scheduling, and optimization for cache-memory hierarchies; can be used for a second-semester or graduate course. This new edition includes more discussion of Java and object-oriented programming concepts such as visitor patterns plus a new Mini-Java programming project. A unique feature is the newly redesigned compiler project in Java for a subset of Java itself. The project includes both front-end and back-end phases.

## Book Information

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I held the accursed object with both hands and examined it closely. It felt small and weak There was a change after I finished the exam. Suddenly what had once seemed an insurmountable obstacle had been reduced to a collection of molecules. Something small and without worth, a mere shadow of the former imposition. Yes, I held a mere object in my hands. Something, which would no longer

hold, power over me. I was suddenly struck by a tremendous urge to exert my power over it. I envisioned myself beating the book against tress and concrete benches, hurling it baseball-pitch style at brick walls, hitting it with a ten-pound sledge at full tilt, drop-kicking it off of high buildings, tearing it cover-from-cover with my bare hands. But most importantly, most eerily satisfying, were the visions of setting the terrible book on its side, allowing the pages to ruffle gently under the cover, -and igniting a book of matches underneath the pages. I longed to see it burn. I wanted to, through my own volition and physical power, reduce it. O book most foul, into the optimally entropic form, then relieve my bladder onto its smoldering ashes. I could think of nothing more satisfying. I'm not entirely sure why I didn't, just then and there, outside the Wetherill Laboratory of Chemistry, satisfy my urges and just destroy the beast. Perhaps I'm not entirely certain that my travail with 'modern compiler implementation in Java' is over. I won't be certain of that until I stand with a report card in hand. But the blind rage continues. It sits on my shelf until then, forever staring at me with a bright red cover and insulting lower-case sans-serif typeface, the author's name 'Appel' an invocation of the original sin which lies within.

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