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Picturing Programs. An Introduction to Computer Programming (Paperback)

By Stephen Bloch

College Publications, United Kingdom, 2010. Paperback. Book Condition: New. 254 x 178 mm. Language: English Brand New Book ***** Print on Demand *****.A first programming course should not be directed towards learning a particular programming language, but rather at learning to program well; the programming language should get out of the way and serve this goal. The simple, powerful Racket language (related to Scheme) allows us to concentrate on the fundamental concepts and techniques of computer programming, without being distracted by complex syntax. As a result, this book can be used at the high school (and perhaps middle school) level, while providing enough advanced concepts not usually found in a first course to challenge a college student. Those who have already done some programming (e.g. in Java, Python, or C++) will enhance their understanding of the fundamentals, un-learn some bad habits, and change the way they think about programming. We take a graphics-early approach: you ll start manipulating and combining graphic images from Chapter 1 and writing event-driven GUI programs from Chapter 6, even before seeing arithmetic. We continue using graphics, GUI and game programming throughout to motivate fundamental concepts. At the same time, we emphasize data types, testing, and...

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