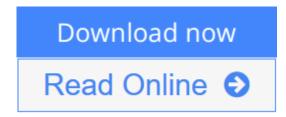# Imagine! Java: Programming Concepts in Context

By Frank M. Carrano

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For one or two-semester introductory CS1 Java courses taken by CS majors and non-majors.

Based on his inspiring lecture style, author Frank Carrano's new text, *Imagine! Java,* engages students immediately with vivid "what if" examples and everyday analogies that keep them engaged and wanting to learn more.

Carrano starts students slowly by presenting concepts in small, manageable chunks that force students to focus on one core concept at a time. Carrano uses engaging repetitive examples to reinforce learning before moving on to more complicated concepts. This approach offers the student an opportunity to establish patterns they can use in their own programs and ultimately develop a more intuitive and sustainable understanding of the programming concepts.

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Imagine! Java: Programming Concepts in Context By Frank M. Carrano Bibliography

- Sales Rank: #912805 in Books
- Published on: 2010-04-08
- Original language: English
- Number of items: 1
- Dimensions: 9.85" h x 1.32" w x 8.07" l, 3.40 pounds
- Binding: Paperback
- 1008 pages

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Editorial Review

Review
"Carrano uses a back-and-forth approach to teach a concept and reinforce it by covering it in more detail later. This is a good design that gives students time to digest a concept before introducing more complexity." — Douglas Twitchell, Illinois State University

"This is a novel pedagogical approach that will drive the evolution of textbook design strategy. The tone is easy and conversational, and the level of detail is appropriate. The author intuits probable questions generated by the reader and responds appropriately." — Ric Heishman, George Mason University

"Repeated reference to the Java documentation (API) is a strong point of this text." — Tim Margush, University of Akron

"I appreciate the hands-on examples in this book, especially the step-by-step description. The concept of "core method" is very impressive." — Jianchao Han, California State University, Dominguez Hills

"The examples strike a good balance between being short enough to be understood, while being long enough to illustrate the concept in question." — Paul Sivilotti, Ohio State University

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About the Author

Frank M. Carrano is a professor emeritus of computer science at the University of Rhode Island. He received the Ph.D. degree in computer science from Syracuse University in 1969. His interests include data structures, computer science education, social issues in computing, and numerical computation. Professor Carrano is particularly interested in the design and delivery of undergraduate courses in computer science. He has authored several well-known computer science textbooks for undergraduates.

Frank's **Making it Real blog** http://frank-m-carrano.com/blog/ extends his textbooks and lectures to a lively discussion with instructors and students about teaching and learning computer science.

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