

Leen Ammeraal - Kang Zhang

Computer Graphics for Java Programmers

Third Edition

 Springer

Computer Graphics For Java Programmers

Casey Reas, Ben Fry

Computer Graphics For Java Programmers:

Computer Graphics for Java Programmers Leen Ammeraal,Kang Zhang,2017-10-12 This third edition covers fundamental concepts in creating and manipulating 2D and 3D graphical objects including topics from classic graphics algorithms to color and shading models It maintains the style of the two previous editions teaching each graphics topic in a sequence of concepts mathematics algorithms optimization techniques and Java coding Completely revised and updated according to years of classroom teaching the third edition of this highly popular textbook contains a large number of ready to run Java programs and an algorithm animation and demonstration open source software also in Java It includes exercises and examples making it ideal for classroom use or self study and provides a perfect foundation for programming computer graphics using Java Undergraduate and graduate students majoring specifically in computer science computer engineering electronic engineering information systems and related disciplines will use this textbook for their courses Professionals and industrial practitioners who wish to learn and explore basic computer graphics techniques will also find this book a valuable resource

Computer Graphics for Java Programmers Leen Ammeraal,1998-04-29 Computer Graphics for Java Programmers is a good place to start for those with a little experience of Java who wish to create and manipulate 2D and 3D graphical objects Two dimensional subjects discussed include logical coordinates triangulation of polygons and both Bezier and B spline curve fitting There is also a chapter about transformations culminating in a useful Java class for 3D rotations about an arbitrary axis The perspective representation of 3D solid objects is discussed in detail including efficient algorithms for hidden face and hidden line elimination These and many other algorithms are accompanied by complete ready to run Java programs which can be downloaded from the accompanying web site

Computer Graphics For Java Programmers, 2Nd Ed Leen Ammeraal & Kang Zhang,2007-05-31 The book covers elementary concepts how to produce simple graphical objects using logical coordinates producing filled regions etc It provides a host of ready to run programs and worked examples to illuminate general principles and geometric techniques for the creation of both 2D and 3D graphical objects Elementary Concepts Applied Geometry Geometrical Transformations Some Classic Algorithms Perspective Hidden Line Elimination Hidden Face Elimination Fractals

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computer graphics using Java Foundations of 3D Graphics Programming Jim X. Chen, Chunyang Chen, 2008-12-10
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Computer Graphics Using Java 2D and 3D Hong Zhang,Y. Daniel Liang,2007 This Java based graphics text introduces advanced graphic features to a student audience mostly trained in the Java language Its accessible approach and in depth coverage features the high level Java 2D and Java 3D APIs offering a presentation of 2D and 3D graphics without compromising the fundamentals of the subject

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Java Graphics Programming Library Oswald Campesato,2002 Java Graphics Programming Library is a comprehensive reference for the experienced Java developer providing hundreds of pages of source code for fully functional Java graphics classes This book CD ROM package saves valuable programming time by offering ready to use customizable code for commonly used graphics including a variety of polygons polyhedra ellipses cones cylinders and more Each chapter contains a thematic selection of graphics and covers the necessary mathematics programming concepts and source code for each image At the end of each chapter are thumbnails of the graphics in the chapter and the additional graphics available on the companion CD ROM Both advanced and less experienced users will find an abundance of code they can use as is customize or extend to suit a variety of programming needs

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Computer Graphics ,1997 **Graphics Programming with JFC** David Wall,Arthur Griffith,1999-02-18 This invaluable book CD ROM set shows experienced programmers how to get the most out of the Java Foundation Classes especially the Java2D packages You ll find out how to create cutting edge graphic

images for your Web sites that will attract more customers
professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and
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their skill set and also provides a toolkit of examples for students taking programming languages courses that focus on
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Object-oriented Programming Featuring Graphical Applications in Java Michael Jay Laszlo,2002 The
goal of this book is to explore the principle ideas of object oriented programming using the Java programming language It
begins teaching the object oriented power of Java by relying on textual commands instead of emphasizing the AWT or Swing
libraries providing the reader with a simple generic introduction to the OO concepts using Java without the language details
getting in the way of the concept presentation The author provides a thorough introduction to the three fundamental
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augmented by interleaved examples that illustrate these concepts Most of these program examples are 2 D graphics
programs that provide an intuitive context for the issues that must be addressed when learning OOP Additionally since
graphics programming is one of the strengths of the Java development environment the examples produce interesting and
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particularly the Template Method Iterator and Composite design patterns which relate to the graphics examples in the book
and uses UML class diagrams to show the static structure of systems and sequence diagrams to show object interactions This
book is appropriate for readers who are new to object oriented but have experience with a non object oriented language and
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