

COMPUTER GRAPHICS LECTURE NOTES

TOPIC 1: INTRODUCTION TO COMPUTER GRAPHICS

Computer graphics is an art of drawing pictures on computer screens with the help of programming. It involves computations, creation, and manipulation of data. In other words, we can say that computer graphics is a rendering tool for the generation and manipulation of images.

- **TECHNICALLY**, it's about the production, manipulation and display of images using computers
- **PRACTICALLY**, it's about movies, games, art, training, advertising, communication, design, ...

COMPUTER GRAPHICS BASICS

I. APPLICATION OF COMPUTER GRAPHICS

Computer Graphics has numerous applications, some of which are listed below:

- ☐ **Computer graphics user interfaces (GUIs)** – A graphic, mouse-oriented paradigm which allows the user to interact with a computer.
- ☐ **Business presentation graphics** - "A picture is worth a thousand words".
- ☐ **Cartography** - Drawing maps.
- ☐ **Weather Maps** – Real-time mapping, symbolic representations.
- ☐ **Satellite Imaging** - Geodesic images.
- ☐ **Photo Enhancement** - Sharpening blurred photos.
- ☐ **Medical imaging** - MRIs, CAT scans, etc. - Non-invasive internal examination.
- ☐ **Engineering drawings** - mechanical, electrical, civil, etc. - Replacing the blueprints of the past.
- ☐ **Typography** - The use of character images in publishing - replacing the hard type of the past. **Architecture** - Construction plans, exterior sketches - replacing the blueprints and hand drawings of the past.
- ☐ **Art** - Computers provide a new medium for artists.
- ☐ **Training** - **Flight simulators**, computer aided instruction, etc.
- ☐ **Entertainment** - Movies and games.
- ☐ **Simulation and modeling** - Replacing physical modeling and enactment

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Alan Watt, Fabio Policarpo



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Rendering Techniques '96 Xavier Pueyo, Peter Schröder, 2012-12-06 27 contributions treat the state of the art in Monte Carlo and Finite Element methods for radiosity and radiance Further special topics dealt with are the use of image maps to capture light throughout space complexity volumetric stochastic descriptions innovative approaches to sampling and approximation and system architecture The Rendering Workshop proceedings are an obligatory piece of literature for all scientists working in the rendering field but they are also very valuable for the practitioner involved in the implementation of state of the art rendering system certainly influencing the scientific progress in this field *From Fourier Analysis to Wavelets* Jonas Gomes, Luiz Velho, 2015-09-15 This text introduces the basic concepts of function spaces and operators both from the continuous and discrete viewpoints Fourier and Window Fourier Transforms are introduced and used as a guide to arrive at the concept of Wavelet transform The fundamental aspects of multiresolution representation and its importance to function discretization and to the construction of wavelets is also discussed Emphasis is given on ideas and intuition avoiding the heavy computations which are usually involved in the study of wavelets Readers should have a basic knowledge of linear algebra calculus and some familiarity with complex analysis Basic knowledge of signal and image processing is desirable This text originated from a set of notes in Portuguese that the authors wrote for a wavelet course on the Brazilian Mathematical Colloquium in 1997 at IMPA Rio de Janeiro **Course Notes**, 1995 [Virtual Reality Technology](#) Grigore C. Burdea, Philippe Coiffet, 2024-09-18 Thorough overview of virtual reality technology fundamentals and latest advances with coverage of hardware software human factors and applications plus companion Laboratory Manual in Unity 3D The Third Edition of the first comprehensive technical book on the subject of virtual reality Virtual Reality Technology provides updated and expanded coverage of VR technology including where it originated how it has evolved and where it is going Its primary objective is to be a complete up to date textbook as well as a source of information on a rapidly developing field of science and technology with broad societal impact The two highly qualified authors cover all of the latest innovations and applications that are making virtual reality more important than ever before Unlike other books on the subject the book also includes a chapter on Human Factors which are very important in designing technology around the human user Virtual Reality Technology provides Instructors with a website accessible Laboratory Manual using the Unity 3D game engine and programming language Unity 3D is the preferred VR language these days and will prepare the student for the VR gaming and mobile applications industry For universities Unity 3D is cost effective as its student license is freely available With comprehensive coverage of the subject Virtual Reality Technology discusses sample topics such as Input and output interfaces including holographic displays foveated head mounted displays neural interfaces haptic and olfactory feedback Computing architecture with emphasis on the rendering pipeline the graphics processing unit and distributed edge rendering Object modeling including physical and behavioral aspects Artificial Intelligence controlled characters and model

management techniques Programming toolkits for virtual reality and the game production pipeline Human factors issues such as user performance and sensorial conflict cybersickness and societal impact aspects of VR Application examples in medical education virtual rehabilitation virtual heritage gaming and military use of virtual reality Virtual Reality Technology provides thorough and complete coverage of an in demand sector of technology making it a highly valuable resource for undergraduate and graduate students in computer science engineering and science along with a variety of professionals across many different industries including but not limited to engineering gaming healthcare and defense Advanced Game Development with Programmable Graphics Hardware Alan Watt,Fabio Policarpo,2005-08-01 Written for game programmers and developers this book covers GPU techniques and supporting applications that are commonly used in games and similar real time 3D applications The authors describe the design of programs and systems that can be used to implement games and other applications whose requirements are to render real time animation sequen *Computer Graphics Through OpenGL®* Sumanta Guha,2022-12-15 COMPREHENSIVE COVERAGE OF SHADERS THE PROGRAMMABLE PIPELINE AND WebGL From geometric primitives to animation to 3D modeling to lighting shading and texturing Computer Graphics Through OpenGL From Theory to Experiments is a comprehensive introduction to computer graphics which uses an active learning style to teach key concepts Equally emphasizing theory and practice the book provides an understanding not only of the principles of 3D computer graphics but also the use of the OpenGL Application Programming Interface API to code 3D scenes and animation including games and movies The undergraduate core of the book takes the student from zero knowledge of computer graphics to a mastery of the fundamental concepts with the ability to code applications using fourth generation OpenGL as well as using WebGL in order to publish to the web The remaining chapters explore more advanced topics including the structure of curves and surfaces applications of projective spaces and transformations and the implementation of graphics pipelines This book can be used for introductory undergraduate computer graphics courses over one to two semesters The careful exposition style attempting to explain each concept in the simplest terms possible should appeal to the self study student as well Features Covers the foundations of 3D computer graphics including animation visual techniques and 3D modeling Comprehensive coverage of OpenGL 4 x including the GLSL and vertex fragment tessellation and geometry shaders Comprehensive coverage of WebGL 2 0 Includes 440 programs and experiments Contains 700 exercises 100 worked examples and 650 four color illustrations Requires no previous knowledge of computer graphics Balances theory with programming practice using a hands on interactive approach to explain the underlying concepts *Medicine Meets Virtual Reality 21* J.D. Westwood,S.W. Westwood,L. Felländer-Tsai,2014-02-12 This book presents the proceedings of the 21st NextMed MMVR conference held in Manhattan Beach California in February 2014 These papers describe recent developments in medical simulation modeling visualization imaging haptics robotics sensors interfaces and other IT enabled technologies that benefit healthcare The wide range of applications includes simulation for medical education and surgical

training information guided therapies mental and physical rehabilitation tools and intelligence networks Since 1992 Nextmed MMVR has engaged the problem solving abilities of scientists engineers clinicians educators the military students and healthcare futurists Its multidisciplinary participation offers a fresh perspective on how to make patient care and medical education more precise and effective

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