

# OpenGL Data Visualization Cookbook



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Packt Publishing Limited, United Kingdom, 2015. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Over 35 hands-on recipes to create impressive, stunning visuals for a wide range of real-time, interactive applications using OpenGL About This Book \* Get acquainted with a set of fundamental OpenGL primitives and concepts that enable users to create stunning visuals of arbitrarily complex 2D and 3D datasets for many common applications \* Explore interactive, real-time visualization of large 2D and 3D datasets or models, including the use of more advanced techniques such as stereoscopic 3D rendering. \* Create stunning visuals on the latest platforms including mobile phones and state-of-the-art wearable computing devices Who This Book Is For This book is aimed at anyone interested in creating impressive data visualization tools using modern graphics hardware. Whether you are a developer, engineer, or scientist, if you are interested in exploring the power of OpenGL for data visualization, this book is for you. While familiarity with C/C++ is recommended, no previous experience with OpenGL is assumed. What You Will Learn \* Install, compile, and integrate the OpenGL pipeline into your own project \* Create interactive applications using GLFW to handle user inputs and the Android Sensor framework to detect gestures and motions on mobile devices \* Use OpenGL primitives to plot 2-D datasets such as time series dynamically \* Render complex 3D volumetric datasets with techniques such as data slicers and multiple viewpoint projection \* Render images, videos, and point cloud data from 3D range-sensing cameras using the OpenGL Shading Language (GLSL) \* Develop video see-through augmented reality applications on mobile devices with OpenGL ES 3.0 and OpenCV \* Visualize 3D models with meshes and surfaces using stereoscopic 3D technology In Detail OpenGL is a great multi-platform, cross-language,...



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