

# REAL-TIME RENDERING

FOURTH EDITION

Thomas A. Akeley • James D. Haines  
Angelo P. Prete • Michal Ivanicki • Sébastien Hillaire

Thoroughly updated, the fourth edition of *Real-Time Rendering* focuses on modern techniques used in games and film. This advanced primer is a treasure of a manual. It provides a guide to the most significant techniques developed and applied over the past decade, and includes case study case studies on 3D engines and physical-based materials and lighting, global illumination, and new photo-realistic rendering algorithms to create believable scenes on new computer hardware. Chapters on video, shaders, volumetric techniques, and advanced shading. A new chapter has been added about neural and deep learning. This edition focuses on games, practical rendering methods used in games and other applications. It also presents a solid foundation of fundamentals and the relevant mathematics for the field of interactive computer graphics, all in an accessible style.

## Review

"This is the book I recommend to everyone coming out of the industry. Not only is it a great reference on its own, but it's also a great primer to get you up to speed on important topics with great resources for further exploration!"

— Dan Madsen, *Unity*

"Real-Time Rendering continues to evolve through its cutting-edge papers, GDCs, and blogs into a single source of real-time rendering today's best practices, open problems, and promising state-of-the-art research. It is a treasure trove for everyone and anyone!"

— Chris Thomas, *Principal Research Scientist, NVIDIA*

"Since it was first published, *Real-Time Rendering* has been an invaluable companion to anyone who wants to keep up with the industry field. It continues to provide coverage of the latest research with up-to-date discussions of the latest techniques. The fourth edition is a great reading for anyone serious about computer graphics!"

— Mark Hahn, *co-author of Physically Based Rendering: From Theory to Implementation*

"This book's rendering engine and its case studies that I learned in previous editions of *Real-Time Rendering*. The new edition is carefully updated to represent the current state of the field, and will remain the best resource I think when tackling a new challenge."

— Frank Kane, *Principal Graphics Engineer, Capcom, and co-author of Unreal Engine 4*

"Real-Time Rendering is the best book I recommend reading to anyone who wants to learn real-time graphics. It has the latest knowledge in one place, and is an absolute must!"

— Steve Rabinovich, *Unity Technologies*

**Meet the Game:** The cover shows an example of advanced real-time rendering technology used in the 2018 hit game *Overwatch*, which includes features such as lighting, color correction, and anti-aliasing. The cover art is by the game's art director, and the book is published by the game's publisher, Blizzard Entertainment, in collaboration with CRC Press.

Game and Graphics



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# REAL-TIME RENDERING

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Eric Haines

Naty Hoffman

Angelo Prete

Michal Ivanicki

Sébastien Hillaire



# Real Time Rendering Third Edition

**Christian G. Meyer**



**Real Time Rendering Third Edition:**

Real Time Rendering Third Edition: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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