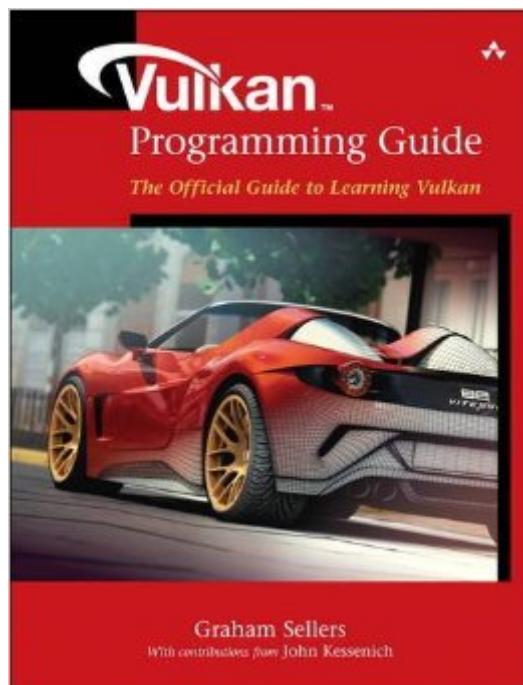


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Vulkan Programming Guide: The Official Guide To Learning Vulkan (OpenGL)



Synopsis

The First, Definitive Vulkanâ„¢ Developerâ™s Guide and Reference: Master the Next-Generation Specification for Cross-Platform Graphics Â The next generation of the OpenGL specification, Vulkan has been redesigned from the ground up, giving applications direct control over GPU acceleration for unprecedented performance and predictability. Vulkanâ„¢ Programming Guide is the essential, authoritative reference to this new standard for experienced graphics programmers in all Vulkan environments. Â Vulkan API lead Graham Sellers and language lead John Kessenich present example-rich introductions to the portable Vulkan API and the new SPIR-V shading language. The authors begin by introducing Vulkan, its goals, and the key concepts framing its API. Incrementally moving to more advanced topics, they ultimately present a complex rendering system that demonstrates both Vulkanâ™s uniqueness and its exceptional power. Â Youâ™ll find authoritative coverage of topics ranging from drawing to memory, and threading to compute shaders. The authors especially show how to handle tasks such as synchronization, scheduling, and memory management that are now the developerâ™s responsibility. Â Vulkanâ„¢ Programming Guide introduces powerful 3D development techniques for fields ranging from videogames to medical imaging, and state-of-the-art approaches to solving challenging scientific compute problems. Whether youâ™re upgrading from OpenGL or moving to open-standard graphics APIs for the first time, this guide will help you get the results and performance youâ™re looking for. Â Coverage includes Extensively tested code examples to demonstrate Vulkanâ™s capabilities and show how it differs from OpenGL Expert guidance on getting started and working with Vulkanâ™s new memory system Thorough discussion of queues, commands, moving data, and presentation Full explanations of the SPIR-V binary shading language and compute/graphics pipelines Detailed discussions of drawing commands, geometry and fragment processing, synchronization primitives, and reading Vulkan data into applications A complete case study application: deferred rendering using complex multi-pass architecture and multiple processing queues Appendixes presenting Vulkan functions and SPIR-V opcodes, as well as a complete Vulkan glossary

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