



Learning Vulkan

Parminder Singh

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Discover how to build impressive 3D graphics with the next-generation graphics API – Vulkan About This Book Get started with the Vulkan API and its programming techniques using the easy-to-follow examples to create stunning 3D graphics Understand memory management in Vulkan and implement image and buffer resources Get hands-on with the drawing process and synchronization, and render a 3D graphics scene with the Vulkan graphics pipeline Who This Book Is For This book is ideal for graphic programmers who want to get up and running with Vulkan. It's also great for programmers who have experience with OpenGL and other graphic APIs who want to take advantage of next generation APIs. A good knowledge of C/C++ is expected. What You Will Learn Learn fundamentals of Vulkan programing model to harness the power of modern GPU devices. Implement device, command buffer and queues to get connected with the physical hardware. Explore various validation layers and learn how to use it for debugging Vulkan application. Get a grip on memory management to control host and device memory operations. Understand and implement buffer and image resource types in Vulkan. Define drawing operations in the Render pass and implement graphics pipeline. Manage GLSL shader using SPIR-V and update the shader resources with descriptor sets and push constants. Learn the drawing process, manage resources with synchronization objects and render 3D scene output on screen with Swapchain. Bring realism to your rendered 3D scene with textures, and implement linear and optimal textures In Detail Vulkan, the next generation graphics and compute API, is the latest offering by Khronos. This API is the successor of OpenGL and unlike OpenGL, it offers great flexibility and high performance capabilities to control modern GPU devices. With this book, you'll get great insights into the workings of Vulkan and how you can make stunning graphics run with minimum

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