Install Vulkan SDK on Mac

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Vulkan SDK Introduction

What is Khronos Vulkan API?

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 - 1. Vulkan API is explicit
 - 2. Vulkan API is low-overhead
 - 3. Vulkan API is cross-platform graphics API
 - 4. Vulkan API is cross-platform compute API
 - 5. Vulkan API over operating system
 - 6. Vulkan API on wide variety of devices as PC/mobile/embeded platforms

Vulkan SDK Introduction

What does Vulkan SDK do?

- 2. What does Vulkan SDK do?
 - Vulkan SDK enables Vulkan Developer to develop Vulkan applications
- 3. What does Vullkan SDK include?
 - 1. Vulkan API usage validation
 - 2. Vulkan Layer configuration
 - 3. SPIR-V shader compilation
 - 4. SPIR-V shader optimization
 - 5. SPIR-V shader validation
 - 6. Vulkan System report

MoltenVK

Vulkan SDK that used on macOS, iOS platforms

- 4. How to use MoltenVK?
 - 1. Link directly to the MoltenVK static or dynamic library
 - 1. You can direct access to the Vulkan API
 - 2. It is not practical if you wish to maintain portability of your Vulcan rendering code across platforms
 - 3. You will sacrifice the ability to use the Vulcan validation layers
 - 4. However, this is the only way to use MoltenVK on mobile devices.
 - 5. On mobile devices, XCFramework is provided as a static library that can be linked directly to your application.
 - 2. Use MoltenVK dynamic library in conjunction with the Vulkan loader.
 - 1. This is generally used on desktop applications
 - 2. In this mode, you link only to the Vulkan loader, and not the MoltenVK library directly.
 - 3. You will include the MoltenVK and the Vulkan Loader dynamic libraries in your application bundle when distributing your software.
 - 4. Use Vulcan loader and Vulcan validation layers instead of linked to the static MoltenVK library, why?
 - 1. You can debugging your Vulkan rendering code by using tremendous boon