

Chapter 8: CommandBuffer

Rendering commands have to be Recorded in a CommandBuffer.
Only then the GPU can work on it ♣

That's the idea, since decades ago, so yeah, xD.

O. amvk wrap

1. VkCommandPool

VkCommandPoolCreateInfo

- lacktriangledown https://vkdoc.net/man/VkCommandPoolCreateInfo
 - .sType WK_STRUCTURE_TYPE_COMMAND_POOL_CREATE_INFO
 - .pNext NULL
 - .flags VkCommandPoolCreateFlagBits
 - https://vkdoc.net/man/VkCommandPoolCreateFlagBits | ivirtex-github
 - TRANSIENT
 - RESET_COMMAND_BUFFER:- Lets you call vkBeginCommandBuffer() on same CMDBUF more than once
 - O:- Can't call vkBeginCommandBuffer() more than once on the same CMDBUF
 - .queueFamilyIndex
 - CommandPool = as per queueFamily
 - i am not sure if you can have multiple CommandPool on the same QueueFamily

vkCreateCommandPool()

- $\bullet \quad \widehat{\texttt{A}} \quad https://vkdoc.net/man/vkCreateCommandPool$
 - · .device 🂹 💁
 - .pCreateInfo 🎆 💁
 - .pAllocator ChapterZZZ
 - .pSemaphore 🗗 😭

REY DOCs

- Copy Paste amVK_FrameBuffer.hh Current Implementation & Change it as needed
 - Trust me, this is the most fun way of doing this, xP

2. VkCommandBuffer

YkCommandBufferAllocateInfo

- $\bullet \ \ https://vkdoc.net/man/VkCommandBufferAllocateInfo$
 - .sType VK_STRUCTURE_TYPE_COMMAND_BUFFER_ALLOCATE_INFO
 - .pNext NULL
 - · .commandPool 🎆 💁
 - .level 🗷 PRIMARY/SECONDARY [Toggle]
 - · .commandBufferCount 🂹 💁

vkAllocateCommandBuffers()

- $\bullet \ \ https://vkdoc.net/man/vkAllocateCommandBu \rlap/\!\!\!/ ers$
 - .device
 - .pAllocateInfo 🎆 💁
 - ° pCommandBuffers ② ❖
- - both Primary & Secondary commandBuffers are supported
 - But, as off 01 May, 2025
 - amVK Users must use one of the amVK_CommandPoolCATs (Categories) e.g. Graphics/Compute 💁
 - \bullet \mathscr{O} $amVK_Synchronization.hh$