

```
typedef enum VkImageCreateFlagBits {
                                                                                          typedef enum VkSampleCountFlagBits {
     VK IMAGE CREATE SPARSE BINDING BIT = 0x00000001.
                                                                                               VK_SAMPLE_COUNT_1_BIT = 0x00000001,
     VK_IMAGE_CREATE_SPARSE_RESIDENCY_BIT = 0x000000002
                                                                                              VK_SAMPLE_COUNT_2_BIT = 0x000000002,
VK_SAMPLE_COUNT_4_BIT = 0x00000004,
     VK_IMAGE_CREATE_SPARSE_ALIASED_BIT = 0x00000004, VK_IMAGE_CREATE_MUTABLE_FORMAT_BIT = 0x00000008,
                                                                                              VK_SAMPLE_COUNT_8_BIT = 0x000000008,
     VK_IMAGE_CREATE_CUBE_COMPATIBLE_BIT = 0x00000010,
                                                                                              VK_SAMPLE_COUNT_16_BIT = 0x00000010,
VK_SAMPLE_COUNT_32_BIT = 0x00000020,
} VkImageCreateFlagBits;
                                                                                              VK_SAMPLE_COUNT_64_BIT = 0x000000040,
                                                                                         } VkSampleCountFlagBits;
typedef enum VkImageType {
     VK_IMAGE_TYPE_1D = 0,
                                                                                          typedef enum VkImageTiling {
    VK TMAGE TYPE 2D = 1
                                                                                               VK_IMAGE_TILING_OPTIMAL = 0,
     VK_IMAGE_TYPE_3D = 2,
                                                                                               VK_IMAGE_TILING_LINEAR = 1,
} VkImageType;
                                                                                            // Provided by VK_EXT_image_drm_format_modifier
VK_IMAGE_TILING_DRM_FORMAT_MODIFIER_EXT = 1000158000,
                                                                                          } VkImageTiling;
typedef enum VkFormat {
     VK FORMAT R32 UINT = 98.
                                                                                          typedef enum VkImageUsageFlagBits {
     VK_FORMAT_R32_SINT = 99,
VK_FORMAT_R32_SINT = 99,
VK_FORMAT_R32_SFLOAT = 100,
VK_FORMAT_R32G32_UINT = 101,
VK_FORMAT_R32G32_SINT = 102,
                                                                                               VK_IMAGE_USAGE_TRANSFER_SRC_BIT = 0x00000001
                                                                                               VK_IMAGE_USAGE_TRANSFER_DST_BIT = 0x000000002,
                                                                                               VK_IMAGE_USAGE_SAMPLED_BIT = 0x00000004,
VK_IMAGE_USAGE_STORAGE_BIT = 0x00000008,
     VK_FORMAT_R32G32_SFLOAT = 103,
VK_FORMAT_R32G32B32_UINT = 104,
VK_FORMAT_R32G32B32_SINT = 105,
                                                                                               VK_IMAGE_USAGE_COLOR_ATTACHMENT_BIT = 0x00000010,
                                                                                               VK_IMAGE_USAGE_DEPTH_STENCIL_ATTACHMENT_BIT = 0x00000020, VK_IMAGE_USAGE_TRANSIENT_ATTACHMENT_BIT = 0x00000040,
     VK_FORMAT_R32G32B32_SFLOAT = 106,
VK_FORMAT_R32G32B32A32_UINT = 107,
VK_FORMAT_R32G32B32A32_SINT = 108,
                                                                                               VK_IMAGE_USAGE_INPUT_ATTACHMENT_BIT = 0x00000080,
                                                                                          } VkImageUsageFlagBits;
     VK_FORMAT_R32G32B32A32_SFLOAT = 109,
} VkFormat;
                                                                                          typedef enum VkSharingMode {
                                                                                              VK_SHARING_MODE_EXCLUSIVE = 0,
VK_SHARING_MODE_CONCURRENT = 1,
typedef struct VkExtent3D {
                                                                                         } VkSharingMode;
      uint32_t
                        width;
      uint32 t
                        height;
                                                                                         typedef enum VkImageLayout {
      uint32_t
                        depth;
                                                                                              VK_IMAGE_LAYOUT_UNDEFINED = 0,
                                                                                              VK_IMAGE_LAYOUT_GENERAL = 1,
VK_IMAGE_LAYOUT_COLOR_ATTACHMENT_OPTIMAL = 2,
} VkExtent3D;
                                                                                              VK_IMAGE_LAYOUT_DEPTH_STENCIL_ATTACHMENT_OPTIMAL = 3,
                                                                                              VK_IMAGE_LAYOUT_DEPTH_STENCIL_READ_ONLY_OPTIMAL = 4,
VK_IMAGE_LAYOUT_SHADER_READ_ONLY_OPTIMAL = 5,
VK_IMAGE_LAYOUT_TRANSFER_SRC_OPTIMAL = 6,
VkImageCreateInfo
                                                                                              VK_IMAGE_LAYOUT_TRANSFER_DST_OPTIMAL = 7,
VK_IMAGE_LAYOUT_PREINITIALIZED = 8,
 sType = VK_STRUCTURE_TYPE_IMAGE_CREATE_INFO;
 pNext = nullptr;
                                                                                         } VkImageLayout;
→flags;
▶imageType;
→format:
mipLevels;// the number of levels
 arrayLayers; // the number of layers
 samples;←
 tiling;←
 usage;←
 sharingMode;<del></del>←
 queueFamilyIndexCount;
 pOueueFamilvIndices:
 initialLayout;
             VkResult vkCreateImage(
                                                                                        VkDevice
                   VkDevice
                                                                device,←
                   const VkImageCreateInfo*
                                                                pCreateInfo,
                   const VkAllocationCallbacks*
                                                                pAllocator,
                   VkImage*
                                                                pImage-
                                                                                       Vklmage
             );
             void vkDestroyImage(
                   VkDevice
                                                               device,←
                                                                                        VkDevice
                                                               image,←
                                                                                        Vklmage
                   const VkAllocationCallbacks* pAllocator
             );
```