



## 0. VkGraphicsPipelineCreateInfo i











- <https://vkdoc.net/man/VkGraphicsPipelineCreateInfo>
  - `.sType` VK\_STRUCTURE\_TYPE\_GRAPHICS\_PIPELINE\_CREATE\_INFO
  - `.pNext` nullptr
  - `.flags` ChapterZZZ
    - <https://vkdoc.net/man/VkPipelineCreateFlagBits> | [ivrtex-github](#)
  - `.stageCount` uint32\_t
  - `.pStages` Shaders VkPipelineShaderStageCreateInfo
  - Pipeline States / Stages
    - `.pVertexInputState`
    - `.pInputAssemblyState`
    - `.pTessellationState`
    - `.pViewportState`
    - `.pRasterizationState`
    - `.pMultisampleState`
    - `.pDepthStencilState`
    - `.pColorBlendState`
    - `.pDynamicState`
  - `.layout` SubChapter 2
  - `.renderPass`
  - `.subpass` 0
  - `.basePipelineHandle` VK\_NULL\_HANDLE
  - `.basePipelineIndex` INT32\_MIN

## 1. amVK wrap

TBA

## 2. VkPipelineLayout




### 1. VkPipelineLayoutCreateInfo

- <https://vkdoc.net/man/VkPipelineLayoutCreateInfo>
  - .sType  VK\_STRUCTURE\_TYPE\_PIPELINE\_LAYOUT\_CREATE\_INFO
  - .pNext  nullptr
  - .flags  0
    -  <https://vkdoc.net/man/VkPipelineLayoutCreateFlagBits> | [ivirtex-github](#)
  - .pSetLayouts  nullptr  VkDescriptorSetLayout  ChapterZZZ
  - .pPushConstantRanges  nullptr  VkPushConstantRange  ChapterZZZ

### 2. vkCreatePipelineLayout()

- <https://vkdoc.net/man/vkCreatePipelineLayout>

## 3. Pipeline Objects

1. `amVK_Vertex.hh`  GITHUB\_WIP
2. `amVK_GeoMetry.hh`  GITHUB\_WIP
3. `amVK_PipelineGRAPHICS.cpp`  GITHUB\_WIP

#### 4. Validation Errors

1.