

width: int, height: int)

GLFW_KeyCallback(window: GLFWwindow*, width: int, height: int

msg : const char*, userParam : const void*) : static void

id : unsigned int, severity : GLenum,

length : GLsizei,

GLFW_DebugOutput(source : GLenum,

- m_Running : bool

+ Start(): void

+ Stop(): void

- m_Multithread : bool

- m_Interval : std::chrono::duration<int, std::milli>

+ FileWatcher(path : std::string, multithread : bool)

- m_Callback : std::function<void(std::string, FileWatchStatus)>

- m_WatchedPaths : std::unordered_map<std::string, std::filesystem::file_time_type>

Operations

+ FileWatcher(path : std::string, intervalMs : int, multithread : bool)

+ Start(callback : std::function<void(std::string, FileWatchStatus)>)

Operations

+ IsKeyUp(key : int) : static bool

+ IsKeyDown(key : int) : static bool

+ IsKeyPressed(key : int) : static bool

+ IsKeyReleased(key : int) : static bool

+ GetMousePosition(): static glm::vec2

- GetMouseDelta(): static glm::vec2

- IsMouseUp(button : int) : static bool

+ IsMouseDown(button : int) : static bool

+ IsMousePressed(button : int) : static bool

+ IsMouseReleased(button : int) : static bool

- ShowMouse(show : bool) : static void

+ GetScrollDelta() : static float

+ GetResolution(): static glm::ivec2

+ GetPipeline() : static RenderPipeline*

m Framebuffer : Framebuffer*

+ GetFramebuffer() : Framebuffer*

~RenderPass()

+ Begin() : void

+ Albedo : glm::vec4

+ AlbedoMap : Texture*

+ AlphaClipping : bool

+ NormalMap : Texture*

⊦ Wireframe : bool

+ AlphaClipThreshold : float

+ TextureCoordinateScale : glm::vec2 + TextureCoordinateOffset : glm::vec2

Operations

+ FillShader(shader : Shader*) : void

+ End(): void

+ GetStages(): ShaderStageInfo&

+ GetProgram(): unsigned int

+ GetUniformCount(): unsigned int

+ Set(location : int, value : int) const : void

+ Set(location : int, value : bool) const : void

+ Set(location : int, value : float) const : void

+ Set(location : int, value : double) const : void

+ Set(location : int, value : glm::vec4) const : void

+ Set(location : int, value : glm::mat3) const : void

+ Set(location : int, value : glm::mat4) const : void

+ GetUniformInfo(location : int) : ShaderUniform&

+ GetUniformInfo(locationName : std::string)

: ShaderUniform&

+ Bind(): void

+ Unbind(): void

+ UpdateStages(stageInfo : ShaderStageInfo) : void

Operations

+ RenderPass(specs : FramebufferSpec&)

+ GetDepthAttachment() : RenderTexture*

+ GetColourAttachmentCount() : unsigned int

+ GetColourAttachment(index : unsigned int) : RenderTexture*

Material

Attributes

ForwardRenderPipeline

Operations

DeferredRenderPipeline

Attributes

Operations

+ ForwardRenderPipeline()

+ ~ForwardRenderPipeline()

m_MeshPass : RenderPass*

m_LightingPass : RenderPass*

m_ForwardPass : RenderPass*

- DeferredRenderPipeline()

+ ~DeferredRenderPipeline()

- ForwardPass()

DrawGrid(position : glm::vec3,

+ DrawRay(ray : Ray) : static void

+ DrawLine(line : Line) : static void

+ DrawQuad(position : glm::vec3,

+ DrawCube(position : glm::vec3,

+ DrawSphere(position : glm::vec3, radius : float) : static void

+ DrawWireCube(position : glm::vec3,

- DrawWireSphere(position : glm::vec3, radius : float) : static void

+ DrawWireQuad(position : glm::vec3, scale : glm::vec2, rotation : glm::vec3) : static void

scale : glm::vec3,

gridSize : unsigned int, scale : glm::vec3,

+ DrawLine(start : glm::vec3, end : glm::vec3)

rotation : glm::vec3) : static void

scale : glm::vec2, rotation : glm::vec3) : static void

scale : glm::vec3, rotation : glm::vec3) : static void

rotation : glm::vec3) : static void