Graphics Device

- ID3D11Device * device
- ID3D11DeviceContext * deviceContext
- IDXGISwapChain * swapChain
- ID3D11RenderTargetView * renderTargetView
- ID3D11DepthStencilView * depthStencilView
- ID3D11Texture2D * depthStencilBuffer
- int windowWidth
- int windowHeight
- HWND hWnd
- + woid Initialize(HWND hWnd, int width, int height)
- + void ResizeBuffersAndViews(int width, int height)
- + ID3D11Device * GetDevice() const
- + ID3D11DeviceContext * GetDeviceContext() const
- + IDXGISwapChain * GetSwapChain() const
- + ID3D11RenderTargetView * GetRenderTargetView() const
- + ID3D11DepthStencilView * GetDepthStencilView() const
- + int GetWindowWidth()
- + int GetWindowHeight()
- + HWND GetHWND()

-graphicsDevice

ShaderProgram

- ID3D11VertexShader * vertexShader
- ID3D11PixelShader * pixelShader
- ID3D11InputLayout * inputLayout
- ID3D11Buffer * constantBuffer
- + ShaderProgram(GraphicsDevice *graphicsDevice)
- + void LoadShader(LPCSTR VSFilename, LPCSTR PSFilename)
- + void ClearResources()
- + void UpdateBuffers(ConstantBuffer cb)
- + void Bind()
- bool CompileHLSL(const std::string &filename, ShaderType shaderType)
- std::vector< byte > LoadShaderFile(const std::string &filename, ShaderType shaderType)