

Structure

amGHOST_<smth>.hh :- e.g. amGHOST_System.hh

- These are "INTERFACE" objects.
 - i.e. class amGHOST_System has pure virtual functions.
- under the hood class amGHOST SystemWIN32/X11 or XLIB/WAYLAND/cocoa gets created.
 - check files inside ./intern/
- same kinda thingy happens to all other amGHOST_<smth>.hh
- These files serve as both INTERFACE + DOCUMENTATION ☺

Tutorial

• One of my 2025 goal is to create a LIVE Video on this, ⊜> where I show the creation of amGHOST from ground up / void / nada / null ⓒ.

ex. 1

```
#include "amGHOST/amGHOST_System.hh"
#include <iostream>
int main(int argumentCount, char* argumentVector[]) {
    std::cout << "\n";
    amGHOST_System::create_system(); // Static Func, saves the created system into `amG_HEART`
    amGHOST_Window* W = amG_HEART->new_window_interface();
    W->create(L"Whatever", 0, 0, 500, 600);
    std::cin.get(); // wait for terminal input
    W->destroy();
    std::cout << "\n";
    return 0;
}</pre>
```

docs

- Treat amGHOST_<smth>.hh files as INTERFACE + DOCUMENTATION ©!
- Everything that you can do with amGHOST will be listed inside these files. That is, basically functions and documentation for them.

Usage / Building

· ensure you got the libraries / modules listed below

Libraries / Modules / External Stuffs [.forge]

- 1. REY_LoggerNUtils :- [GIT-SUBMODULE]
 - even tho it's a git-submodule. we fetch/grab/do-shits using CMAKE Scripts like
 .forge/CMakeFiles/REY_FetchV4_REY_LoggerNUtils.cmake instead of
 git submodule --update --init
- 2. vulkan: [REY_FetchV4_SCOUT]
 - i. download vulkan-sdk & have the VULKAN_SDK or VK_SDK_PATH environment variables
- 3. cmake: download & install cmake

Todo

1. auto grab it if vulkan-sdk is not found.... using REY_FetchV4::Zip

Common Principles I Followed

- 1. Logs are better than RETURN VALUES.
 - The way that we need to check RETURN VALUES of every single VULKAN FUNCTION.
 Wrapping every vulkan function call around with a RESULT/VK_CHECK wrapper.... [all of it felt really frickin hectic >_<>] is exactly what led me to take this decision.