

5 - How C++ Works

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- Code -> Compile -> Binary
- Everything that starts with a # is a preprocessed statement
 - Happens just before the compilation
 - include ->
 - Looks for a file
 - past all the content in the place it's called
- Main function
 - Every c++ program has na entry point
 - execution in order but we can break this depending on the code
 - main function don't need to return nothing, but it's defined as integer
 - << overload operator, thing about it as functions
- The compile changes the c++ code into binary code
- We have default projects as Debug and Release
 - A set of rules that applies to a project
 - As compilation target x86, x32...
 - There are more rules like
 - Configuration
 - Platform
 - SDK
 - Output directory
 - Configuration, set to lib or exe
 - Compile settings are in c/c++
 - a lot kkk but basecly libs
 - Debug mode is slower than release mode, because the compiler has more optimizations
- Each c++ file in the project gets compiled
 - Compiled in something called object file .obj
 - Some way to put everything together, here is where the linker comes
 - Take all .obj files and put it together in one .exe file
- Header files does NOT get compiled
- Compile the cpp file
 - CTRL + ALT +7
 - OR CLICK ON BUILD
- eRROR LIST IS MORE LIKE NA OVERVIEW, because it query the output to the word error. The best way is to read the output directly
- What files a compiler creates?
 - .obj file that the compiler generates (one file for each c++)
- We can pass declarations or definitions
 - Declarations:
 - Just tell the compiler that the function exists and it belives it
 - But the linker error comes up... because here is where it'll look for that defined function
 - Definitions:
 - Has the actual implementation with the body implementation

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