

How do I consume raw COM interfaces from a Windows Runtime metadata file?

 devblogs.microsoft.com/oldnewthing/20220908-00

September 8, 2022



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Suppose somebody gives you a Windows Runtime metadata file. You can use it from C++ by asking `cppwinrt.exe` to generate C++/WinRT headers for them. But what if you are writing a C++ program that doesn't use exceptions,¹ or for a C program? You want to access the raw COM interfaces rather than the exception-based projection. What can you do?

There is a raw COM counterpart to `cppwinrt.exe` which produces raw COM interfaces rather than C++/WinRT projections. It goes by the name `Microsoft.Windows.AbiWinRT`. You invoke it basically the same way you invoke `cppwinrt.exe`; the difference is that the output is raw COM header files, which you can include from your C or C++ project, and then either consume directly or wrap inside a non-exception-based smart pointer library like WRL.

¹ For example, video games operate under tight real-time constraints and typically restrict themselves to a subset of C++ that, among other things, does not use exceptions.

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