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

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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,<sup>1</sup> 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 <u>Microsoft.Windows.AbiWinRT</u>. 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.

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

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