## How do I access and customize the IInspectable methods of a Windows Runtime class written in C++/WinRT?

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implementations?

The Windows Runtime IInspectable interface adds three methods beyond those of its base interface IUnknown : GetRuntimeClassName, GetIids, and GetTrustLevel, The C++/WinRT project does not expose these methods because they are used primarily by the language infrastructure, and putting them directly on C++/WinRT objects would cause them to clutter up Intellisense and autocomplete.

So how do you access these methods if they aren't present on winrt::Windows::
Foundation::IInspectable ?

You access them through separate free functions.

```
// returned as a winrt::hstring
auto name = winrt::get_class_name(something);
// returned as a winrt::com_array<winrt::guid>
auto interfaces = winrt::get_interfaces(something);
// returned as a winrt::Windows::Foundation::TrustLevel
```

auto level = winrt::get\_trust\_level(something);

```
Okay, so that's how you can call these secret methods. But how do you override the default
```

For **GetRuntimeClassName** and **GetTrustLevel** you just override it like any other overridable method:

For Getlids, the list of interfaces is generated automatically from the list provided to implements. If you want to remove an interface from the list, you can "cloak" it:

This marks the third interface as cloaked, which means that it is not reported by **Getlids**.

Bonus chatter: What is the default implementation of these methods?

The default runtime class name is the name of the class (if it is a Windows Runtime class) or the default interface, as reported by winrt::name\_of. The default trust level is BaseTrust,

Raymond Chen

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