What's the difference between UuidFromString, IIDFromString, CLSIDFromString, GUIDFromString...

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A GUID and a CLSID and an IID are all the same as a UUID, but there are separate functions for converting a string into a GUID, CLSID, IID, and UUID. Are they all equivalent? If not, what's the difference? And which one should I use?

Let's start with <code>UuidFromString</code> . It takes a string in basic form <code>without</code> curly braces. As a special case, if you pass <code>NULL</code> instead of a valid string pointer, the function still succeeds and sets the result to <code>GUID NULL</code> .

Next up is <code>IIDFromString</code> . This function takes a string in basic form *with* curly braces. It also has the behavior that passing <code>NULL</code> as the string results in success and <code>GUID_NULL</code> .

Slightly more complicated is <code>CLSIDFromString</code> . In addition to accepting a brace-enclosed string (which is treated as a GUID), it also accepts a ProgId. In the ProgId case, it returns the <code>CLSID</code> associated with that <code>ProgId</code>. For example, if you ask for <code>Paint.Picture</code>, it will return the GUID <code>{D3E34B21-9D75-101A-8C3D-00AA001A1652}}</code>. As with the other functions, passing <code>NULL</code> is valid and results in <code>GUID_NULL</code>.

Last is <code>GUIDFromString</code> . This function is one of those "Not guaranteed to be supported beyond Windows Vista" functions, so you should probably steer clear. (Another clue that calling it is probably a bad idea: The function is not exposed in any header file or import library.) But if you insist: It accepts a brace-enclosed string, and <code>NULL</code> is not allowed. Furthermore, it ignores any garbage after the trailing brace. This function was not intended for public consumption, so these strange quirks are not entirely unexpected.

Let's summarize in a table, since that seems to be popular. I added a final column describing whether the function available in A/W variants or is Unicode-only.

Function	Expected format	NULL allowed?	Character set support
UuidFrom- String	xxxxxxxx-xxxx-xxxx-xxxx-	Yes	ANSI and Unicode
IIDFrom- String	{xxxxxxxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xx	Yes	Unicode only
CLSIDFrom- String	{xxxxxxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xxx	Yes	Unicode only
GUIDFrom- String	{xxxxxxxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xx	No	ANSI and Unicode

Raymond Chen

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