WinInteropUtils

WinInteropUtils is a C# library written in .NET 8 that provides managed P/Invoke wrappers for tons of functions you can use, from reading file attributes to interacting with COM interfaces.

The base namespace is FireBlade.WinInteropUtils.



(!) WARNING

WinInteropUtils is still in beta, so bugs may occur. If you experience any bugs, please report them on the <u>Issues</u> page.

How to install (for now)

Because WinInteropUtils isn't a NuGet package yet, to use it, simply download the DLL file, and go into the add references dialog, select Browse, and open the DLL. For a more detailed guide visit the Installation section of the Getting Started page.



(!) WARNING

WinInteropUtils is built on .NET 8, so it won't work for .NET Framework projects.

Features

- WindowsFile file info wrapper
- Full enums (1600+ values) for <u>HRESULT</u>s and <u>Win32 error codes</u>
- Dialog boxes
- Useful utility <u>User32</u> functions (<u>SendMessage</u>, <u>SetWindowLongPtr</u>...)
- Constants and Macros
- COM interfaces
- Icon management (<u>DestroyIcon</u>, ...)

Namespace FireBlade.WinInteropUtils

Classes

DefaultWindowLongPtrValues

Defines default index values for <u>SetWindowLongPtr(nint, int, nint)</u> and <u>GetWindowLongPtr(nint, int)</u>.

EnumExtensions

Provides extension methods for Enum.

ExceptionExtensions

IconExtensions

Adds extension methods to the lcon d class.

Macros

Defines Win32 macros.

Shell32

Declares P/Invoke functions from Shell32.dll.

TitleBarInfo

Stores data about a window's title bar.

User32

Declares P/Invoke functions from User32.dll.

Win32Constants

Defines common Win32 constants.

WindowsFile

Stores data about a Windows file.

Structs

Shell32.SHFILEINFO

The internal Windows API struct for <u>SHGetFileInfoW(string, uint, ref SHFILEINFO, uint, uint)</u>. Use with <u>GetFileInfoEx(string, WindowsFileAttributes, SHGetFileInfoFlags, ref SHFILEINFO)</u>.

Enums

HRESULT

Defines common HRESULT values. Values starting with s_ indicate success, while those starting with s_ indicate an error.

Shell32.SHGetFileInfoFlags

Provides flags for the Windows API function <u>SHGetFileInfoW(string, uint, ref SHFILEINFO, uint, uint)</u>. To use this function, call the <u>GetFileInfoEx(string, WindowsFileAttributes, SHGetFileInfoFlags, ref SHFILEINFO)</u> wrapper instead.

<u>TitleBarElement</u>

Defines elements on a title bar.

<u>TitleBarElementState</u>

Defines the states of a title bar element.

Win32ErrorCode

Defines Win32 error codes.

WindowState

Defines states a window can be in.

WindowsFileAttributes

Specifies attributes for Windows files.