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 Issues⧉ page.

Features

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

Namespace FireBlade.WinInteropUtils

Classes

[DefaultWindowLongPtrValues](#)

   Defines default index values for [SetWindowLongPtr(nint, int, nint)](#) and [GetWindowLongPtr(nint, int)](#).

[EnumExtensions](#)

   Provides extension methods for [Enum⧉](#).

[ExceptionExtensions](#)

   Provides extension methods for [Exception⧉](#).

[IconExtensions](#)

   Adds extension methods to the [Icon⧉](#) 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 [SHGetFileInfoW(string, uint, ref SHFILEINFO, uint, uint)⧉](#). Use with [GetFileInfoEx(string, WindowsFileAttributes, SHGetFileInfoFlags, ref SHFILEINFO)](#).

Enums

[HRESULT](#)

   Defines common HRESULT values. Values starting with `S_` indicate success, while those starting with `E_` indicate an error.

[Shell32.SHGetFileInfoFlags](#)

Provides flags for the Windows API function [SHGetFileInfoW(string, uint, ref SHFILEINFO, uint, uint)](#) ⧉.
To use this function, call the [GetFileInfoEx(string, WindowsFileAttributes, SHGetFileInfoFlags, ref SHFILEINFO)](#) wrapper instead.

[TitleBarElement](#)

Defines elements on a title bar.

[TitleBarElementState](#)

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.