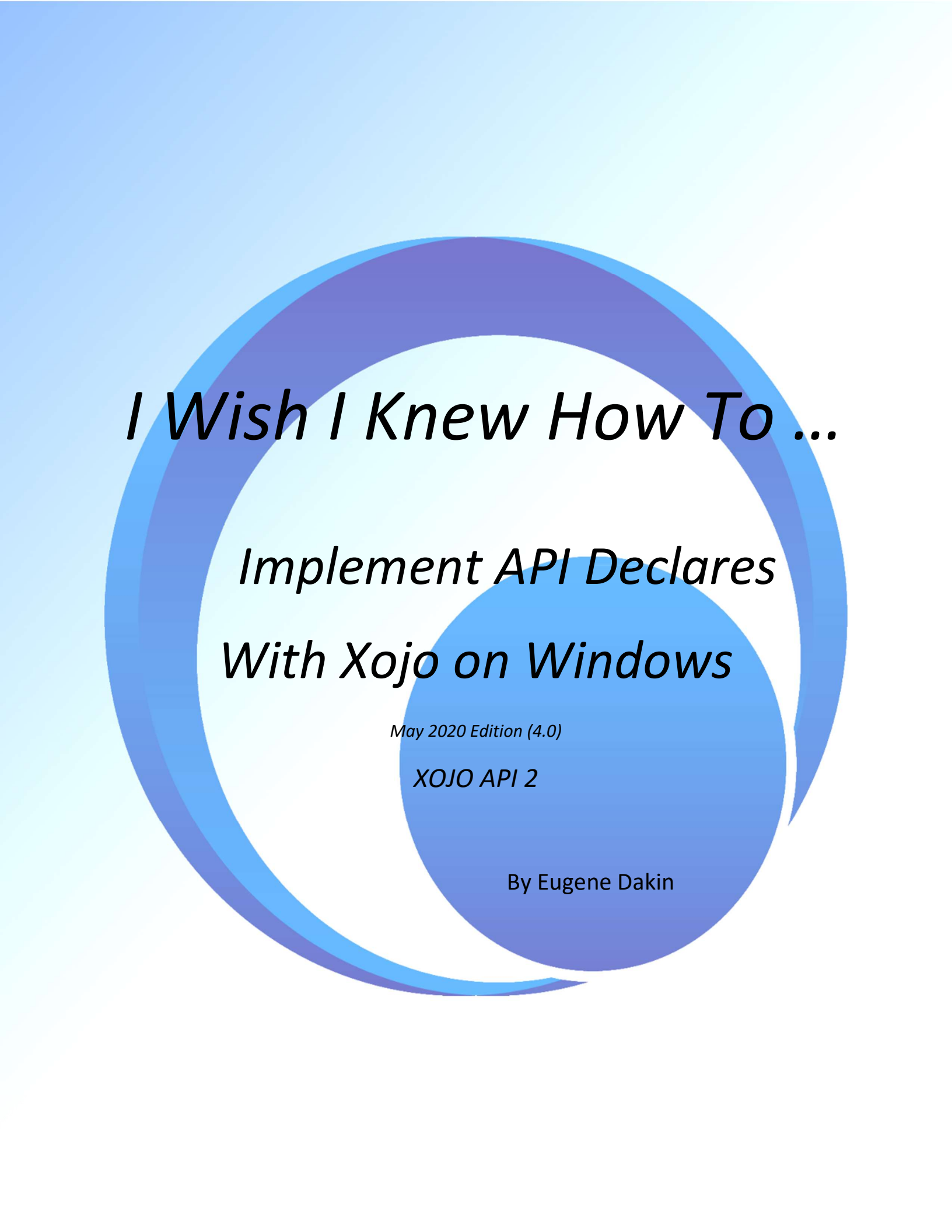




I Wish I Knew How To ...

*Implement API Declares
With Xojo on Windows*

May 2020 Edition (4.0)

XOJO API 2

By Eugene Dakin

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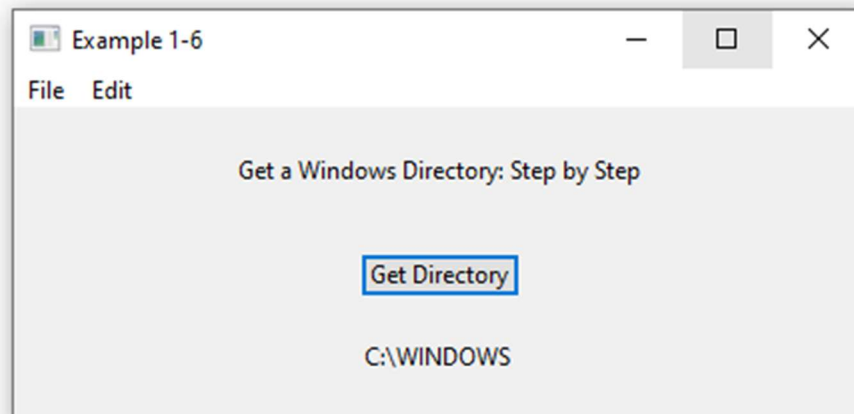
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Build a Declare – From Scratch

This example shows how to build a Declare example in Xojo from by providing all of the steps. The final program will show where the Windows OS has been installed, which is typically on the C:\ drive in the subdirectory Windows. Pressing the PBGetDirectory push button shows the directory path in the LblPath label as shown in the following screen grab.

Figure 8. Example 1-6: Xojo Screen Grab



Pressing the button causes the Windows Declare to execute and the path “C:\WINDOWS” is shown as the Windows directory on this machine.

The first step is to build the Xojo window interface. Start Xojo and select the “Desktop” Application type and press the OK button. An empty window should appear in the Xojo IDE. Press File->Save As, and choose the file name as Example1-6. Select Window1 and change the Frame Title (**Frame** section in IDE when the Inspector button is pressed, and the default word in the Title box is **Untitled**) to Example 1-6. Press the Library button to show the possible controls in Xojo. Drag and drop two Label controls to Window1. Change the lower label control name to LblPath. Drag and drop the Default Button control in the middle of the two labels. Change the push button ID->Name to *PBGetDirectory* and change the Appearance->Caption to *Get Directory*.

To add our code, double-click pushbutton PBGetDirectory and choose the *Action* event and press the OK button. In the Action Event section add the following code:

Code 14. Example 1-6: Get Windows Directory Path

```
Sub Action() Handles Action
    //x86 and x64 compatible
    Var MAX_PATH as UInt32 = 260 //The API maximum path length is 260 (with some variance)
    Var PathLength as UInt32 //Actual byte length of retrieved path

    #If TargetWindows then //Run in Windows OS
        Var APath as String
        PathLength = GetWindowsDirectory(APath, MAX_PATH) //Call the method
        LblPath.Value = APath //Show the path
    #Endif
End Sub
```

How was this code created? Before any code was written, the Microsoft C++ function library was viewed on the internet. In a favorite web browser and search engine, type Microsoft and GetWindowsDirectory and one of the links should provide this portion of code. A method called GetWindowsDirectory has been created to make it easier to use only a string and the maximum path length. This allows the method to determine if the declare is running on a very old ANSI computer or a newer Unicode computer.

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The 'I Wish I Knew' series contains technical data and advice that makes sense and contains practical and numerous examples with explanations to allow you to ease into the steep programming curve. You can extend Xojo applications today!

Xojo has implemented Xojo API2, and this book has converted all of the examples to this new version. Each example from previous versions have had the best attempt to keep them in the same order, with all of the new code and examples from the previous version.

Xojo has included more functionality and the ability to compile in 64-bit modes, and version 4.0 goes through each example to let you know if it is 32-bit (x86) or 64-bit (x64) compatible. Attempts have been made to update code from ANSI (A – Win 95 and Win98) to Unicode (W – WinNT and newer OS's). Code is compatible with Xojo 2019 r1 and Windows 10.

This book provides many examples that are converted from C++ functions to Xojo. Although there are many Visual Basic examples that can be converted, vb declare example are becoming outdated, have different parameters, or contain misinformation. For these reasons converting from C++ to Xojo is a long-lasting alternative and which this book provides many descriptions, reasons, references, and working examples for Xojo declares.

There are 32 chapters and contains over 1050 pages with over 150 example programs. Examples include creating controls, a new window, GDI, Pens, brushes, Structures, Files, LoWord, audio players, more controls, and much more. Many screenshots have been added to show the results of the code with an index to help find topics quickly.

This is one of many books at xDevLibrary. This book can be purchased at <http://XojoLibrary.com> where many great Xojo resources are available.

Happy programming!

Eugene

Eugene Dakin MBA, Ph.D., P.Chem., is an author of Xojo reference materials and has many years of experience in the programming industry. Another great reference book is *I Wish I Knew How To ... Program SQLite*.

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