I Wish I Knew How To …

Program Windows 10 Registry with Xojo

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By Eugene Dakin

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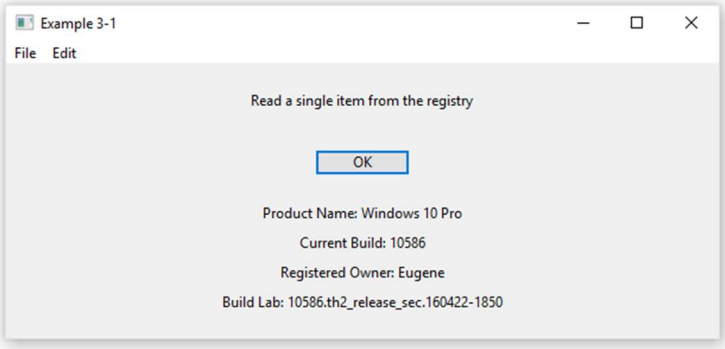
Chapter 3 – Read Registry Data

Reading the registry has some intuitive and some not-so intuitive ways of getting information from the Windows Registry. These examples show different formatting and types of conversions need to change the data in the seemingly crypit registry values to number that make sense.

Read a String

This example shows how to read the ProductName, CurrentBuild, RegisteredOwner, and BuildLab string data from the registry. This code will work when Xojo is running in 32-bit or 64-bit mode. The key name path is: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion, and CurrentVersion has focus (is highlighted).

Figure 18. Example 3-1: Read Registry String Data



Four of the many pieces of string data that are available are read by this example program and are shown on Window1. Press the OK pushbutton to populate the labels with data from your computer.

To make this example, start the Xojo IDE and select the Build Architecture to either *x86 32-bit*, or *x86 64-bit*. Add the following 6 controls to Window1.

Table 4. Example 3-1: Added Controls

Control	Name	Other
Label	Label1	Text: Read a single item from the registry
Pushbutton	Pushbutton1	Text: OK
Label	LblVersion	Text: Version:
Label	LblWinBuild	Text: Windows Build:
Label	LblOwner	Text: Owner
Label	LblBuild	Text: Build

With the above controls added, create an action event for Pushbutton1 and add the following code.

Code 1. Example 3-1: Read String Registry Data

```
 //Create a registry item object
 Dim RegItem as RegistryItem
 //Create the path to the registry key
 RegItem = new RegistryItem("HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows
NT\CurrentVersion", False)

 //Retreive value data from the key
 LblVersion.Text = "Product Name: " + RegItem.Value("ProductName")
 LblWinBuild.Text = "Current Build: " + RegItem.Value("CurrentBuild")
 LblOwner.Text = "Registered Owner: " + RegItem.Value("RegisteredOwner")
 LblBuild.Text = "Build Lab: " + RegItem.Value("BuildLab")
```

A RegistryItem object is created called RegItem and the key path string is loaded into the variable. Four string registry values are shown in four of the labels that have been added to Window1. The false value with the new RegistryItem will prevent a directory from being created, and will only read the path. If the path is not found then a RegistryAccessErrorException will happen.

To run the program, press the *Build* button and run the executable file. Press the *OK* pushbutton to update the labels with string data that has been read from the registry on your Windows Operating System.

Index

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 create Xojo Web applications today!

This book "I Wish I Knew How to … Program Windows 10 Registry with Xojo" shows how to add (create), read, edit (update), delete, (CRUD) and work with the Windows registry in many ways.

This intermediate book is written as a guide and reference to Xojo programmers who want to program the Windows registry. Additional code is created with Declares to expand the options already available with Xojo and the registry. It is recommended that the registry and computer be backed up, as accidently changing data can cause errors, and in extreme cases the OS may need to be reinstalled.

There more than 10 chapters with over 180 pages and more than 50 example programs. An unlocked module is included with all of the API declares that can be used directly in your Xojo program.

Examples include topics such as Adding Data, Editing Data, Deleting, Check for the existence of keys, name, values, dates, 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 Xojo Library and 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 and Real Studio reference materials and has many years of experience in the programming industry. Another great reference book is *I Wish I Knew How To … Program Raspberry Pi 2B and 3B Electronics with Xojo*.

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