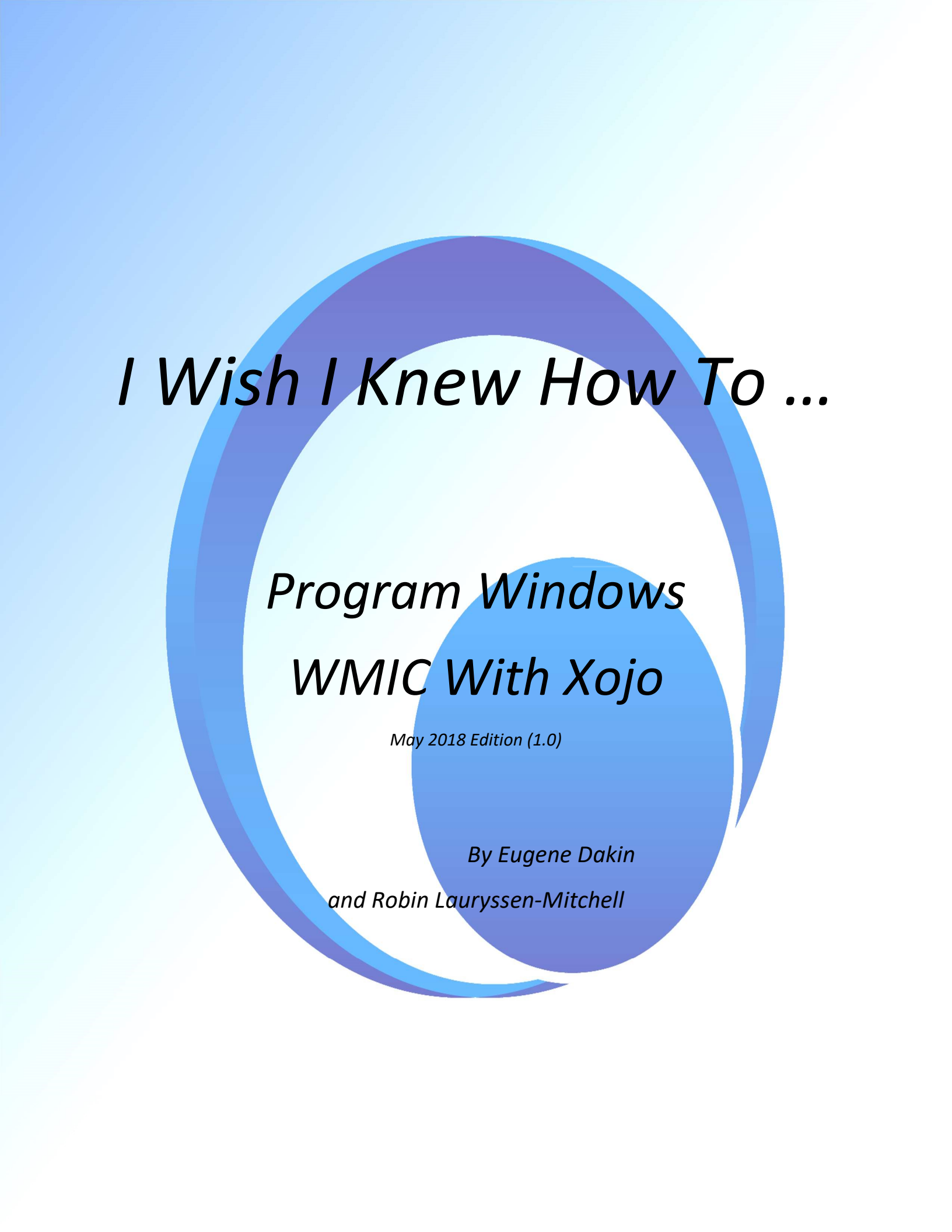




I Wish I Knew How To ...

*Program Windows
WMIC With Xojo*

May 2018 Edition (1.0)

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Quick Porting

Each example will have a *Quick Porting* section, and the purpose of this is to provide the name of the method in the module that can be used in your program, and an example call of the method. The main program may or may not be used by everyone, although it is a good program. Quickly being able to port the specific method that is needed in your program will increase your productivity and information-gathering ability.

Chapter 2 – Xojo Interfacing

This section will take examples and show how to query information and then pull the information into Xojo to make the information readable in Xojo programs.

To make this information portable to other programs, a module called MdlWMIC was created to hold the many methods. As you go through more chapters, each alias and its properties will be added to the MdlWMIC module that can be included in your program.

Reading

The main working code in this program is in the `GetAliasPropertyValue`, which has the purpose of retrieving data for the `ComputerSystem` alias with a property that belongs to this alias.

Quick Porting

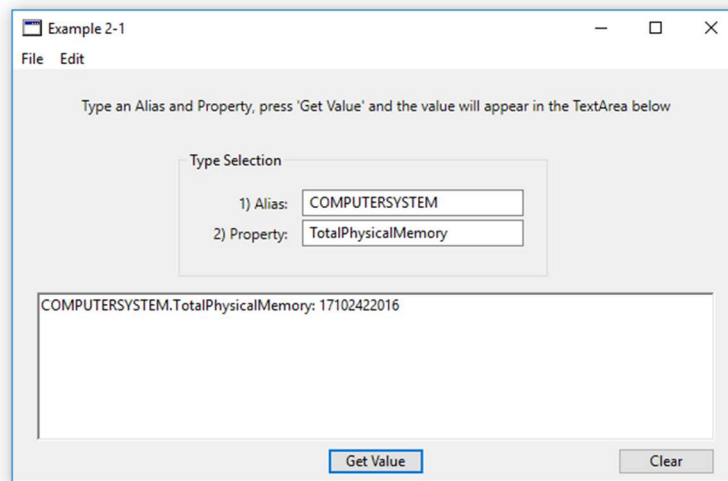
To use this functionality in your own program, the functional method that is needed in your program is the `GetAliasPropertyValue` method, and this method could be called in your program as following:

```
MsgBox GetAliasPropertyValue("COMPUTERSYSTEM", "TotalPhysicalMemory")
```

This will retrieve the total physical memory (RAM) of your computer and can be easily ported into your program.

Below is the screen grab of the program which will be created, and have many other function added throughout this book.

Figure 4. Example 2-1: Xojo Screen Grab



Below is the function code for this method that retrieved data from the COMPUTERSYSTEM alias.

Code 1. Example 2-1: GetAliasPropertyValue

```
Public Function GetAliasPropertyValue(MyAlias as Text, MyProperty as Text) as String
  //Shell.Results separator
  Dim PartsSeparator as string = REALbasic.Chr(13) + REALbasic.Chr(13) + REALbasic.Chr(10)

  //Create a shell to run WMIC
  Dim sh as new Shell
  sh.Execute("wmic " + MyAlias + " get " + MyProperty)

  //Remove the header
  Dim Lines() as String
  Lines = sh.Result.Split(PartsSeparator)

  //Return the answer without the header
  Return Lines(1)
End Function
```

Since WMIC runs at a command prompt then the program will make use of the Xojo shell method. Of the many types of format available, the results of all available SystemComputer alias data will be returned from the sh instance of the shell object.

Each WMIC call return the property header which will look like TotalPhysicalMemory 17102422016 and the header part will be removed to only show the value of 17102422016. The string array variable called Lines() will hold the split values. A separator which has two carriage returns (13) and a new line (10). The first array value is the header and the second array value is the returned value. With the array being zero-based, the value of array one (1) is the value.

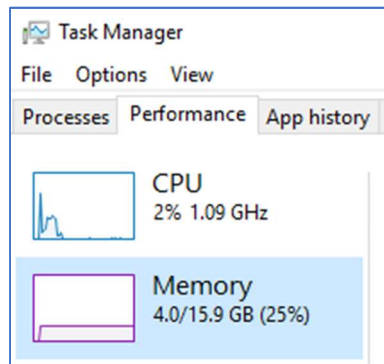
String data from the shell is returned from the method. The value returned from the shell is shown as TotalPhysicalMemory, and the value of the element is the physical memory number which is 17,102,422,016.

The value 17,102,422,016 should be converted to GigaBytes by dividing this number by 1,024 a few times:

17,102,422,016 bytes/1024 kb per byte = 16,701,584 kb
16,701,584 kb/1024 mb per kb = 16,310 Mb
16,310 Mb/1024 Mb per Gb = 15.9 Gb

According to WMIC, my computer has 15.9 gigabytes of RAM (Random Access Memory), and when checking the system by pressing Ctrl-Alt-Del, opening the task manager, and pressing the Performance tab, the total amount of memory is confirmed at 15.9 Gb, as shown in the screen grab below.

Figure 5. Task Manager Total Memory Confirmation



The value from WMIC and the task manager are the same.

The method in this example will be one of the many methods used throughout the rest of the book. Example 2-1 shows how to retrieve information through Xojo using the WMIC with *Alias* and *Property* values.

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Happy programming!

Eugene

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