



I Wish I Knew How To ...

Program Excel 2016

with Xojo in Windows

April 2018 Edition (3.3)

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How to read this information:

I Wish I Knew How to ... Program Excel 2016 with Xojo is a reference and self-paced learning material that helps you understand the different methods to program Excel by using Xojo. Programming Excel with Xojo is in the programming area called Object Linking and Embedding (OLE).

Many of the examples are in small simpler code to help the reader understand the code. It is much easier to understand simplified code and make it complicated, than the other way around.

Note: Most examples do not work with the reader.

New to Version 3.0 - March 2016 – Excel 2016

- 1) Bring the Xojo application in front of the Excel program (Other-3)
- 2) Count Total Rows with Data (Example 10-12)
- 3) Count Individual Rows with Data (Example 10-13)
- 4) Convert Serial Date:Time to Gregorian Calendar Format (Example 4-12)
- 5) Select Rows and Columns at the same time (Example 10-14)
- 6) Clear Column Cell Data (Example 3-20)
- 7) Clear Row Cell Data (Example 3-21)
- 8) Delete Column Cell Data (Example 3-22)
- 9) Delete Row Cell Data (Example 3-23)
- 10) Move Worksheet (Example 3-24)
- 11) Updated Xojo projects to the new Xojo format
- 12) Updated to 2016 Excel
- 13) Rbp to xojo_binary_project files
- 14) Tested all projects
- 15) Updated screen grabs
- 16) Application framework updates
- 17) Update sheet activate (Example 3-15)
- 18) Make book and supplied example match (Example 4-6 and 4-7)
- 19) Updated Gantt Chart (Example 4-9)
- 20) Updated Pie Chart (Example 4-11)

- 21) Total editing time is not available in Excel but is in Word (Example 5-1)
- 22) The Office argument is now case sensitive for Example 5-3
- 23) Added detection of Excel 2016 (Example 5-13)
- 24) Updated and added vertical and horizontal print quality (Example 6-9)
- 25) Get and Set paper size (Example 6-10)
- 26) Added Office System Driver location for Example 11-1 – Access Database
- 27) Added Speedometer Gauge example (Example 7-14)

New to Version 3.1 - September 2017 – Excel 2016

- 1) Added Scattered Plot Line Thickness Change (Example 4-13)
- 2) Added Print Selected Cells example (Example 6-15)
- 3) Added PrintArea of cells to the printer (Example 6-16)
- 4) Added Detect Excel file in Read-only mode (Example 5-14)
- 5) Suppress Informative Message Box for Read-Only files (Example 5-15)
- 6) Bring Excel Application window to the front (Example Other 5)
- 7) Added the ability to copy and paste column data from one sheet to another (Example 13-1)
- 8) Added an example for a vertical lookup (VLOOKUP) from one sheet to another (Example 13-2)
- 9) Added an example to move data from a listbox to Excel (Example 3-25)

New to Version 3.2 - December 2017 – Excel 2016

- 1) Added Form Checkbox Example (Example 14-1)
- 2) Added Form DropDown Control (Example 14-2)
- 3) Added Form Spinner Control (Example 14-3)
- 4) Added Form Listbox Control (Example 14-4)
- 5) Added Form OptionButtons Control (Example 14-5)
- 6) Added Form Labels Control (Example 14-6)

New to Version 3.3 - April 2018 – Excel 2016

- 1) Many thanks to Alberto De Poo for his editing suggestions
- 2) Clarification: Examples will work with Office 365, and almost no examples will work in the reader (Chapter 5)
- 3) Excel Viewer will be retired in April 2018
- 4) Update code in Example 2-3 to include Add and Visible to match the book
- 5) Changed Example 2-3 (page 21) description where the only open sheet is Sheet1 and not Sheet3.
- 6) Page 22 has the text changed to show Sheet1 is open and not Sheet3.
- 7) Page 53 (Example 3-15) changed that data is added to the second sheet.
- 8) Changed Example 3-15 to allow the option of language-neutral selection of the pages using an integer value. Caution – an integer value of 2 will select the second sheet, and “Sheet2” will select the correct sheet tab name, even if it is not the second sheet.
- 9) Added alphabetical Excel sheet ordering in Example 3-26
- 10) Added example to place an Excel Addin at runtime (Example Other-6)
- 11) Change Text Colour (Example 3-27)

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Modifying Numerical Data

One of the most common reasons for using Excel is the ability to perform math. The same type of math functions present in Xojo are also in Excel, with many more to choose from.

A simple example is to multiply 5 times 7. If performed correctly, our answer should be 35.

Code 12. Simple Multiplication (Example3-4.xojo_binary_project)

```
Dim excel as new ExcelApplication
Dim C as string
excel.visible = true
excel.Workbooks.add

excel.Range("B1").value = 5
excel.Range("B2").value = 7
excel.Range("B3").value = "= B1 * B2"

excel = Nil

Exception err as OLEException
MsgBox err.message
```

The above code writes the value '5' in cell B1, '7' in cell B2, and cell B3 has the result of B1 * B2.

Figure 12. Simple Multiplication (Example 3-4)

	A	B	C
1		5	
2		7	
3		35	
4			

There are complicated math calculations that are available in Excel. In this example, I will show you how to use Excel's 'Payment' (PMT) function to calculate monthly payments on a loan.

Loan Payment Example

Before you purchase a new vehicle, you would like to calculate the payments on a loan. Excel has a Payment function and you have to supply the initial values, and Excel does the rest.

In this example I am assuming that the new vehicle has a value of \$30,000.00, there will be loan payments twice per month for a year (24 payments per year) with an annual interest rate of 5% per year.

Code 13. Loan Repayment (Example3-5.xojo_binary_project)

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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 JSON with Xojo Desktop*.

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