I Wish I Knew How To …

Program Excel 2010 with Real Studio in Windows

March 2012 Edition (1.6)

By Eugene Dakin

Table of Contents

Chapter 1 - Introduction to Real Studio and the Environment 9
Preview of Chapter 1 9
What is Real Studio? 9
Comparing Real Studio 2010 R4.1 with Other Versions of Real Studio 9
Describing and Defining the User Interface 10
Example 1 – Placing Built-In Controls on a Window 12
Setting the run-time properties 13

Chapter 2 – Creating, Accessing and Saving an Excel File 16
Excel Terms 16
Create New Excel File 17
Open an Existing Excel File 18
Control an Existing Open Excel File 19
Preventing the User from Interacting 22
Closing Workbooks in Excel 23
Closing Excel without Saving 24
Brute Force Closing of Excel 25

Chapter 3 – Getting, Changing, and Modifying Cell Data 26
Add and Read Information 26
Format Text 27
Getting User Data 28
Loan Payment Example 29
Codes for Formatting Numbers 31
Changing Colors 31
Color Index 34
Compare Color and ColorIndex 35
Changing Font Properties 36
Cell Alignment 38
Formatting Numerical Data 43
Cell Comments 45
Filtering Cells 46

Chapter 4 – Showing Your Data in Charts 50
Create a New Chart in a New Excel Sheet 50
Create a New Chart in an Existing Excel Sheet 53
Create a New Chart with Multiple Plots in an Existing Excel Sheet 55
Chart Types 58
Customizing Charts 59
Chart Title Text Options 60

Preset Gradient Fill 67
Two Color Gradient Fill 70
One Color Gradient Fill 72
Chart Axes Font Options 74
Specialized Charts 76
Gantt Chart 77

Chapter 5 – Properties and Files in Excel 82
Opening an Excel File with Excel 84
Open an Unprotected Excel File 85
Open an Excel File with a Password 85
Saving an Excel File 91
Save a regular 'xlsx' file 91
Parameters of the SaveAs Command 92
Save an Excel file as a Webpage 93
Save Excel File with a Password 95
Save an Existing Excel File 99
Save a Copy of an Existing Excel File 100
Save an Excel File in PDF Format 100
Version of Excel 101

Chapter 6 – Printing in Excel 103
Print Preview 103
Print Directly to the Printer 104
Getting Printer Settings 105
Center on Page 106
Page Margins 109
Header and Footer Text 111
Printer Headings and Printer Guidelines 113
Printing Comments 114
Print Quality 115
Paper Size 116
Page Orientation 117
Printing in Draft Mode 118
Page Printing Order 120
Fit to One Page 121

Chapter 7 – Pivot Table Analysis 122
First Example of a Pivot Table 122
Pivot Cache Options 125

Populating the Pivot Table 126

Pivot Table Filtering 130
Displaying Pivot Charts 132
Excel 2007 Pivot Table and Pivot Chart 132

Excel 2003 Pivot Table and Pivot Chart 135

Group Pivot Table Data by Date – Partially Working 138
Conditional Formatting 140
Default Data Bar 140

Data Bar Options 143

Color Scale 158

Icon Set 162

Chapter 8 – Find and Replace 167
First Example of Find 167
Find Options 168

Find String Does Not Exist 173

Replace Options 174

Avoiding Error Messsages 178

Chapter 9 – Macros 180
Running an Excel Macro 180

Other 184
Using Speech with Excel 184
Adding Graphics as Pictures to Excel 185
Increasing Speed 186

Index

Application

Closing, 24
Closing – Brute Force, 25
Version, 101
Avoid Error Messages, *178*

Cell

Filtering, 46
Cell Alignment, 38

Cell Comments, 45

Chart

Dual Axis, 56
Chart Font Axes, 74

Chart Gradient Fill, 67, 72

Chart in a New Sheet, 50

Chart in an Existing Sheet, 53

Chart Title, 60

Chart Types, 58

Charts

Create a Chart, 50
Gantt Chart, 77
Specialized, 76
Two Color Gradient Fill, 70
Code

Add Information to Cells, 26
Chart Title Fill, 66
Chart Title Font Color, 65
Chart Title Font Shadow, 64
Chart Title Font Style, 64
Chart Title Gradient, 69
Chart Title Gradient Code, 67
Chart Title One Color Gradient, 73
Chart Title Outline Font, 64
Chart Title Preset Gradient, 70
Chart Title Strikethrough, 64
Chart Title Subscript, 64
Chart Title Superscript, 64
Chart Title Two Color Gradient, 70
Chart Titles, 61
Color Index, 34
Comment a Cell, 45
Create a Chart, 50
Create and Open, 17
Create Backup, 97
Create Intermediate Chart, 53
Data Bar in Pivot Table, 143
Date to Serial Date Conversion, 81
Filter Cell Data, 46
First Pivot Table, *122*
Fit to One Page, *121*
Format Cell Text, 26
Formatting Numbers, 43
Gantt Chart, 77
Get an Excel Instance, 19
Get and Set Page Orientation, 118
Header and Footer Text, 112
Heading and Guideline Settings, 113
Hyperlink, 80
Input Box, 28
Loan Repayment, 30
Multiple Line Chart, 55
Multiplication, 29
One Color Gradient Fill, 72
Open a File, 85
Open a File with Password, 85
Open Existing File, 18
Open File Password, 90
Page Setup Horizontal and Vertical, 106
Page Setup Margin Display, 109
Pivot Table Charts, 132
Pivot Table Data Bar, 140

Pivot Table Data Bar Color, 148
Pivot Table Data Bar Fill Type, 150
Pivot Table Data Bar Min-Max, 145
Pivot Table Data Border, 156
Pivot Table Filtering, 130
Pivot Table Grouping, 138
Pivot Table Months, *127*
Pivot Table Parameters, 140
Pivot Table Type Information, *127*
Populate Pivot Table Data, *127*
Prevent User Interaction, 22
Print Draft Mode, *119*
Print Out, 104
Print Preview, 103
Printer Quality Value, 115
Printing Comments, 114
Read Cell Information, 26
RGB to Color, 35
Save a Copy of Open File, 100
Save as PDF, 101
Save with Optional Parameters, 99
Save xlsx File, 91
Setting Paper Size, 117
Speaking in Excel, 182
Text Alignment, 42
Update an Open File, 99
Viewing Print Parameters, 105
Wait, 22
X and Y Chart Axes Font, 74
Colors, 31, 35
Color Index, 34, 65
Number Format, 32
Scheme Color, 65
Date
Serial, 80
Dialogue
Pivot Table Data Bar Border Format, 157
Dialogues
Access Mode Parameters, 98
Alignment of Text, 27
AutoFilter, 48
Border Line Style, 63
Chart Border Line Thickness, 62
Chart Title Background Font, 66
Chart Title Fill Patterns, 66
Chart Title Two Color Gradient, 72
Chart Types, 59
Comparing Values, 166
Conditional Formatting Icon Set, 165
Conditional Formatting Types, 160
Data Bar Filling Code, 152
Data Bar Formatting, 147
File Conflict Resolution, 98
Find
After, 168
LookAt, 169
LookIn, 169
MatchByte, 172
MatchCase, 172, 177
SearchDirection, 172
SearchOrder, 171, 176
Find Parameters, *168*
Gradient Style List, 68
Gradient Type List, 68
Open Update Link Paramters, 85
Orientation, *118*
Pivot Cache Parameters, *125*
Pivot Cache Source Version, *125*
Pivot Chart Types, 134
Pivot Table, 128
Pivot Table Data Bar Direction, 155
Pivot Table Data Border Codes, 157
Print Order, *120*
Replace
LookAt, 175

Replace Parameters, *175*
SaveAs FileFormat Parameters, 92
Underline Styles, 65
Examples

1-01 REALStudio Program, 14
2-01 Open Excel, 17
2-02 Open Existing File, 18
2-03 Get Instance, 19
2-04 Prevent User Interaction, 22
2-05 Closing a Workbook, 23
2-06 Close Excel without Saving, 24
2-07 Closing Excel by Brute Force, 25
3-01 Add and Read Data Cells, 26
3-02 Format a Cell, 27
3-03 Input Box, 28
3-04 Modify Numbers, 29
3-05 Loan Repayment, 30
3-06 Text Color, 32
3-07 Color Index, 34
3-08 RGB to Color, 35
3-09 Font Values, 37
3-10 Text Alignment, 39
3-11 Text Alignment, 42
3-12 Number Formatting, 43
3-13 Cell Comments, 45
3-14 Filter Cells, 46
4-01 Create a Chart, 50
4-02 Intermediate Chart, 53
4-03 Multiple Line Chart, 55
4-04 Dual Axis Chart, 56
4-05 Chart Title, 61
4-06 Chart Title Gradient, 69
4-07 Chart Title Two-Gradients, 70
4-08 Chart Title One-Gradient, 73
4-09 Gantt Chart, 77
4-10 Date to Serial Date, 81
5-01 Document Properties, 82
5-02 Open Workbook, 85
5-03 Open with Password, 90
5-04 Save File, 91
5-05 Save As Webpage, 93
5-06 Save with Password, 95
5-07 Save Read Only Recommended, 96
5-08 Create Backup, 97
5-09 Save Optional Parameters, 99
5-10 Update Open File, 99
5-11 Save Copy As, 100
5-12 PDF Format, 101
6-01 Print Preview, 103
6-02 Print Out, 104
6-03 View Print Parameters, 105
6-04 Page Setup Centering, 106
6-05 Page Setup Margin Settings, 109
6-06 Page Setup Header and Footer, 112
6-07 Heading and Guideline Settings, 113
6-08 Printing Comments, 114
6-09 Printer Quality Value, 115
6-10 Paper Size, 117
6-11 Page Orientation, 118
6-12 Draft Mode, 119
6-13 Page Order Printing, 120
6-14 One Page Fit, 121
7-01 Pivot Table Introduction, 122
7-02 Pivot Table Filtering, 130
7-03 Pivot Table Chart, 132
7-04 Pivot Table Grouping, 138
7-05 Pivot Table Data Bar, 140
7-06 Data Bar Modification, 143
7-07 Data Bar Min and Max, 145
7-08 Data Bar Color, 148
7-09 Data Bar Fill Type, 150
7-10 Data Bar Direction, 153
7-11 Data Bar Border, 156
7-12 Two-Color Color-Scale, 159
7-13 Three-Color Color-Scale, 160
7-14 Icon Set, 162
8-01 Find a Whole String, 170
8-01 Find and Select, 167
8-01 Find and Select at a cell, 168
8-03 Find a Partial String, 169
8-05 Find String Does Not Exist, 173
8-06 Replace Worksheet Information, 174
8-07 Replace Partial Information, 175
8-08 Avoid Error Messages, 178
Other-01 Speech, 182

Other-02 Speech, 183
Other-03 Speed, 184
File

Copy a File, 100
Create New File, 17
Open Parameters, 84
Open Unprotected File, 85
Save a File, 91
Save an Existing File, 99
Save as a Webpage, 93
Save as PDF, 100
Save ReadOnlyRecommended, 96
Save with Password, 95
Save xlsx File, 91
SaveAs Parameter, 92
SaveAs Parameters, 91
Files, 82

SaveAs Webpage, 93
Find and Replace, *167*

Find Options, *168*, *173*

Find String Does Not Exist, *173*

Font Properties, 36

Font Values, 37

Format Numbers, 31

Format Text, 27

Formatting

Date/Time, 45
Number Codes, 44
Numbers, 31
Get User Data, 28

Graphics

Adding, 183
Header and Footer Text, 111

InputBox, 27

Loan Payment Example, 29

Macros, *180*

Multiple Plot Chart, 55

Number Formatting, 43

Office

Macro, 180
msoGradientBrass, 68
msoGradientCalmWater, 68
msoGradientChrome, 68
msoGradientChromeII, 68
msoGradientDaybreak, 68
msoGradientDesert, 68
msoGradientDiagonalDown, 68
msoGradientDiagonalUp, 68
msoGradientEarlySunset, 68
msoGradientFire, 68
msoGradientFod, 68
msoGradientFromCenter, 68
msoGradientFromCorner, 68
msoGradientFromTitle, 68
msoGradientGold, 68
msoGradientGoldII, 68
msoGradientHorizon, 68
msoGradientHorizontal, 68
msoGradientLateSunset, 68
msoGradientMahogany, 68
msoGradientMoss, 68
msoGradientNightfall, 68
msoGradientOcean, 68
msoGradientParchment, 68
msoGradientPeacock, 68
msoGradientRainbow, 68
msoGradientRainbowII, 68
msoGradientSapphire, 68
msoGradientSilver, 68
msoGradientVertical, 68
msoGradientWheat, 68

msoPattern10Percent, 66
msoPattern20Percent, 66
msoPattern25Percent, 66
msoPattern30Percent, 66
msoPattern40Percent, 66
msoPattern50Percent, 66
msoPattern5Percent, 66
msoPattern60Percent, 66
msoPattern70Percent, 66
msoPattern75Percent, 66
msoPattern80Percent, 66
msoPattern90Percent, 66
msoPatternDarkDownwardDiagonal, 66
msoPatternDarkHorizontal, 66
msoPatternDarkUpwardDiagonal, 66
msoPatternDarkVertical, 66
msoPatternDashedDownwardDiagonal, 66
msoPatternDashedHorizontal, 66
msoPatternDashedUpwardDiagonal, 66
msoPatternDashedVertical, 66
msoPatternDiagonalBrick, 66
msoPatternDivot, 66
msoPatternDottedDiamond, 66
msoPatternDottedGrid, 66
msoPatternHorizontalBrick, 66
msoPatternLargeCheckerBoard, 66
msoPatternLargeConfetti, 66
msoPatternLargeGrid, 66
msoPatternLightDownwardDiagonal, 66
msoPatternLightHorizontal, 66
msoPatternLightUpwardDiagonal, 66
msoPatternLightVertical, 66
msoPatternMixed, 66
msoPatternNarrowHorizontal, 66
msoPatternNarrowVertical, 66
msoPatternOutlinedDiamond, 66
msoPatternPlaid, 66
msoPatternShingle, 66
msoPatternSmallCheckerBoard, 66
msoPatternSmallConfetti, 66
msoPatternSmallGrid, 66
msoPatternSolidDiamond, 66
msoPatternSphere, 66
msoPatternTrellis, 66
msoPatternWave, 66
msoPatternWeave, 66
msoPatternWideDownwardDiagonal, 66
msoPatternWideUpwardDiagonal, 66
msoPatternZigZag, 66
Run, 180
xl3Arrows, 165
xl3ArrowsGray, 165
xl3DArea, 59
xl3DAreaStacked, 59
xl3DBarClustered, 59
xl3DBarStacked, 59
xl3DBarStacked100, 59
xl3DColumn, 59
xl3DColumnClustered, 59
xl3DColumnStacked, 59
xl3DColumnStacked100, 59
xl3DLine, 59
xl3DPie, 59
xl3DPieExploded, 59
xl3Flags, 165
xl3Signs, 165
xl3Symbols, 165
xl3Symbols2, 165
xl3TrafficLights1, 165
xl3TrafficLights2, 165
xl4Arrows, 165
xl4ArrowsGray, 165
xl4CRV, 165
xl4RedToBlack, 165
xl4TrafficLights, 165
xl5Arrows, 165
xl5ArrowsGray, 165
xl5Boxes, 165
xl5CRV, 165
xl5Quarters, 165
xl5Stars, 165
xl5Triangles, 165
xlActiveCell, 168
xlAddIn, 92
xlAnd, 48

xlArea, 59
xlAreaStacked, 59
xlAreaStacked100, 59
xlAutomatic, 138
xlAverage, 128
xlBackgroundAutomatic, 66
xlBackgroundOpaque, 66
xlBackgroundTransparent, 66
xlBarClustered, 59
xlBarOfPie, 59
xlBarStacked, 59
xlBarStacked100, 59
xlBetween, 166
xlBottom10Items, 48
xlBottom10Percent, 48
xlBubble, 59
xlBubble3DEffect, 59
xlCenter, 27
xlCenterAcrossSelection, 27
xlColumnClustered, 59
xlColumnStacked, 59
xlColumnStacked100, 59
xlConditionValueAutomaticMax, 147
xlConditionValueAutomaticMin, 147
xlConditionValueFormula, 147, 160
xlConditionValueHighestValue, 160
xlConditionValueHighestValue, 147
xlConditionValueLowestValue, 160
xlConditionValueLowestValue, 147
xlConditionValueNone, 147, 160
xlConditionValueNumber, 147, 160
xlConditionValuePercent, 147, 160
xlConditionValuePercentile, 147, 160
xlConeBarClustered, 59
xlConeBarStacked, 59
xlConeBarStacked100, 59
xlConeCol, 59
xlConeColClustered, 59
xlConeColStacked, 59
xlConeColStacked100, 59
xlConsolidation, 125
xlContext, 155
xlContinuous, 63
xlCount, 128
xlCountNums, 128
xlCSV, 92
xlCSVMac, 92
xlCSVMSDOX, 92
xlCSVWindows, 92
xlCurrentPlatformText, 93
xlCustomSet, 165
xlCylinderBarClustered, 59
xlCylinderBarStacked, 59
xlCylinderBarStacked100, 59
xlCylinderCol, 59
xlCylinderColClustered, 59
xlCylinderColStacked, 59
xlCylinderColStacked100, 59
xlDash, 63
xlDashDot, 63
xlDashDotDot, 63
xlDataBarBorderNone, 157
xlDataBarBorderSolid, 157
xlDataBarColor, 157
xlDataBarFillGradient, 152
xlDataBarFillSolid, 152
xlDataBarSameAsPositive, 157
xlDatabase, 125
xlDBF2, 92
xlDBF3, 92
xlDBF4, 92
xlDIF, 92
xlDistributed, 27
xlDot, 63
xlDouble, 63
xlDoughnut, 59
xlDoughnutExploded, 59
xlDownThenOver, 120
xlEqual, 166
xlExcel12, 93
xlExcel2, 92
xlExcel2FarEast, 92
xlExcel3, 92
xlExcel4, 93
xlExcel4Workbook, 93
xlExcel5, 93

xlExcel7, 93
xlExcel8, 93
xlExcel9795, 93
xlExclusive, 98
xlExternal, 125
xlFill, 27
xlFormulas, 169
xlGeneral, 27
xlGreater, 166
xlGreaterEqual, 166
xlHairline, 62
xlHtml, 93
xlInAddIn, 92
xlIntMacro, 92
xlJustify, 27
xlLandscape, 118
xlLeft, 27
xlLess, 166
xlLessEqual, 166
xlLine, 59
xlLineMarkers, 59
xlLineMarkersStacked, 59
xlLineMarkersStacked100, 59
xlLineStacked, 59
xlLineStacked100, 59
xlLocalSessionChanges, 98
xlLocationAsNewSheet, 138
xlLocationAsObject, 138
xlLTR, 155
xlMacintosh, 88
xlMax, 128
xlMaximized, 184
xlMedium, 62
xlMin, 128
xlMinimized, 184
xlMSDOS, 88
xlNoChange, 98
xlNotBetween, 166
xlNotEqual, 166
xlOpenXMLWorkbook, 93
xlOr, 48
xlOtherSessionChanges, 98
xlOverThenDown, 120
xlPaper10x14, 116
xlPaper11x17, 116
xlPaperA3, 116
xlPaperA4, 116
xlPaperA4Small, 116
xlPaperA5, 116
xlPaperB4, 116
xlPaperB5, 116
xlPaperCsheet, 116
xlPaperDsheet, 116
xlPaperEnvelope10, 116
xlPaperEnvelope11, 116
xlPaperEnvelope12, 116
xlPaperEnvelope14, 116
xlPaperEnvelope9, 116
xlPaperEnvelopeB4, 116
xlPaperEnvelopeB5, 116
xlPaperEnvelopeB6, 117
xlPaperEnvelopeC3, 116
xlPaperEnvelopeC4, 116
xlPaperEnvelopeC5, 116
xlPaperEnvelopeC6, 116
xlPaperEnvelopeC65, 116
xlPaperEnvelopeDL, 116
xlPaperEnvelopeItaly, 117
xlPaperEnvelopeMonarch, 117
xlPaperEnvelopePersonal, 117
xlPaperEsheet, 116
xlPaperExecutive, 116
xlPaperFandoldUS, 117
xlPaperFanfoldLegalGerman, 117
xlPaperFanfoldStdGerman, 117
xlPaperFolio, 116
xlPaperLedger, 116
xlPaperLegal, 116
xlPaperLetter, 116
xlPaperLetterSmall, 116
xlPaperNote, 116
xlPaperQuarto, 116
xlPaperStatement, 116
xlPaperTabloid, 116
xlPaperUser, 117
xlPart, 169, 171, 172, 175, 176, 177

xlPie, 59
xlPieExploded, 59
xlPieofPie, 59
xlPivotTable, 125
xlPivotTableVersion10, 125
xlPivotTableVersion11, 125
xlPivotTableVersion12, 125
xlPivotTableVersion14, 125
xlPivotTableVersion2000, 125
xlPortrait, 118
xlProduct, 128
xlPyramidBarClustered, 59
xlPyramidBarStacked, 59
xlPyramidBarStacked100, 59
xlPyramidCol, 59
xlPyramidColClustered, 59
xlPyramidColStacked, 59
xlPyramidColStacked100, 59
xlRadar, 59
xlRadarFilled, 59
xlRadarMarkers, 59
xlRight, 27
xlRTL, 155
xlShared, 98
xlSlantDashDot, 63
xlStDev, 128
xlStDevP, 128
xlStockHLC, 59
xlStockOHLC, 59
xlStockVHLC, 59
xlStockVOHLC, 59
xlStyleNone, 63
xlSum, 128
xlSurface, 59
xlSurfaceTopView, 59
xlSurfaceTopViewWireframe, 59
xlSurfaceWireframes, 59
xlSYLK, 92
xlTemplate, 92
xlTextMac, 92
xlTextMSDOS, 92
xlTextPrinter, 93
xlTextWindows, 92
xlThick, 62
xlThin, 62
xlTop10Items, 48
xlTop10Percent, 48
xlUnderlineStyleDouble, 65
xlUnderlineStyleDoubleAccounting, 65
xlUnderlineStyleNone, 65
xlUnderlineStyleSingle, 65
xlUnderlineStyleSingleAccounting, 65
xlUnicodeText, 93
xlUserResolution, 98
xlValues, 169
xlVar, 128
xlVarP, 128
xlWebArchive, 93
xlWhole, 169, 171, 172, 175, 176, 177
xlWindows, 88
xlWJ2WD1, 92
xlWJ3, 93
xlWJ3FJ3, 93
xlWK1, 92
xlWK1ALL, 92
xlWK1FMT, 92
xlWK3, 92
xlWK3FM3, 92
xlWK4, 93
xlWorkbookNormal, 93
xlWorks2FarEast, 92
xlWQ1, 93
xlXMLSpreadsheet, 93
xlXMLWorkbookMacroEnabled, 93
xlXYScatter, 59
xlXYScatterLines, 59
xlXYScatterLinesNoMarkers, 59
xlXYScatterSmooth, 59
xlXYScatterSmoothNoMarkers, 59
Open

Add to MRU, 89
Corrupt Load, 90
Delimiter Parameters, 88
Editable Parameters, 89
Ignore Read Only Parameters, 87

Notify Parameters, 89
Open Format Parameters, 86
Origin Parameters, 87
Read Only Parameters, 86
Page Orientation, 117

Page Printing Order, *120*

Pictures

Adding, 183
Pivot Cache Options, *125*

Pivot Charts, 132

From Pivot Table, 132
Pivot Table, *122*

2003, 135
2007, 132
Color Scale, 158, 162
Conditional Formatting, 140
Data Bar, 140
Data Bar Border, 155
Data Bar Color, 148, 155
Data Bar Direction, 153
Data Bar Fill Type, 150
Data Bars, 143
FIrst Example, 122
Populate, 126
Pivot Table Date Grouping, 138

Pivot Table Filtering, 130

Printer Centering, 106

Printer Guidelines, 113

Printer Headings, 113

Printer Settings, 105

Printing, 103

Comments, 114
Fit to One Page, *121*
Preview, 103
Print Preview Results, 104
Print to Printer, 104
Quality, 115
Properties, 82

Replace, *167*

Replace Options, *174*

Run a Macro, *180*

Search, *167*

Speech, 182

Speed, 184

Terms

Spreadsheet Terms, 16
Text

Alignment, 39
Three-Color Scale, 160

Two-Color Scale, 158

Version, 101

Workbook

Add, 23
Close, 23

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 Microsoft Excel applications today!

This book "I Wish I Knew How to … Program Excel with Real Studio in Windows" goes into the numerous options of programming Excel.

This guide uses the power of Real Studio in conjunction with the power of Excel. The question is frequently asked 'why not just create the program in Excel?' The answer is confidentiality, security, and automation. It is relatively common knowledge that program created in Excel are not secure and can be easily modified to view the original formulas for calculating results – no matter how much protection has been placed in the original program.

There are over 8 chapters and contains over 180 pages with over 65 example programs. The book is a live document and will likely have updates in the future.

Examples include graphing, pivot tables, speaking in Excel, printing pages, saving Excel files to PDF, and more. Many screenshots have been added to show the results of the code with a full index to help find topics quickly.

This is one of many books at RSLIbrary. This book can be purchased at http://www.rslibrary.com/ where many great Real Studio resources are available.

Happy programming!

Eugene

Eugene Dakin MBA, Ph.D., P.Chem., is an author of 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 Access with Real Studio Desktop Apps in Windows*.

ISBN: 978-0-9880947-0-3