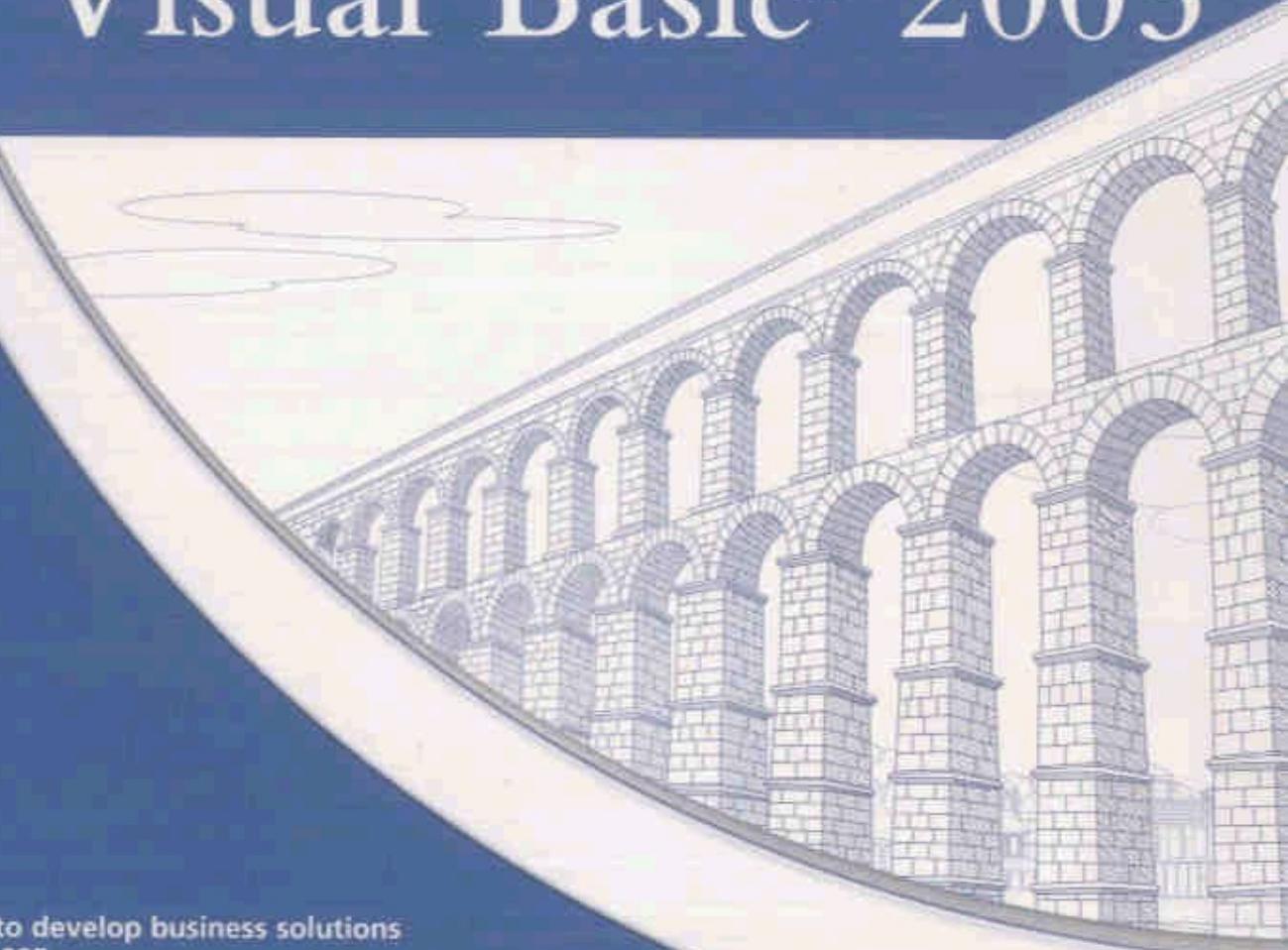


Read Less - Learn More®



Visual Basic® 2005



- See how to develop business solutions with VB 2005
- Build and distribute a professional VB 2005 application, start to finish

Your visual blueprint™ for writing dynamic applications

TABLE OF CONTENTS

1 GETTING STARTED WITH VB.NET	2
Install Visual Studio 2005	2
Create a New Project.....	6
Using Parts of a Project	8
Create a “Hello World” Application.....	10
2 WORKING WITH WINDOWS FORMS	12
Create a New Form	12
Add a Control to a Form	13
Set the Properties of a Control	14
Resize a Control	16
Create a Menu.....	17
Create a Dialog Box	18
Set the Tab Key Order.....	20
Create a Message Box.....	22
Write Code for an Event	23
3 CREATING WINDOWS CONTROLS: LABELS, TEXT BOXES, AND LISTS	24
Add a TextBox Control to a Form	24
Access a TextBox Control	26
Set Defaults for a TextBox Control	28
Add a Label Control to a Form	30
Add a ListBox Control	32
Set Defaults for a ListBox Control.....	34
Write Items to a ListBox Control	36
Access an Item Selected from a ListBox Control	38
Add a ComboBox Control	40
Access an Item Selected from a ComboBox Control.....	42
4 CREATING WINDOWS CONTROLS: BUTTONS, RADIO BUTTONS, AND CHECK BOXES	44
Add a Button Control	44
Write a Button Control Event	45
Change the Label of a Button Control.....	46

Using an Image for a Button Control	47
Make a Button the Default Button	48
Add a Radio Button	50
Access a Radio Button	52
Add a Check Box	54
Access a Check Box	56
Create a GroupBox Control	58

5 DECLARING VARIABLES, EXPRESSIONS, AND STATEMENTS 60

Understanding Variable Types	60
Declare a Variable	62
Initialize a Variable	63
Assign a Value to a Variable	64
Using Variables	65
Change the Value of a Variable	66
Convert Data Types	68
Create a Simple Expression	70
Create a Complex Expression	71
Using Operator Precedence	72
Create a Statement	73
Create More Complex Expressions	74

6 CREATING CONDITIONAL STATEMENTS 76

Understanding Conditional Statements	76
Create an If...Then Statement	78
Create an Equivalent Logical Expression	80
Create a Not Equivalent Logical Expression	82
Create a Compound Logical Expression	84
Create an If...Then...Else Statement	86
Create an If...Then...ElseIf...Then Statement	88
Create an If...Then...ElseIf...Then...Else Statement	90
Create a Nested If...Then Statement	92
Create a Select Case Statement	94
Create a Select Case...Case Else Statement	96

TABLE OF CONTENTS

7 CREATING LOOPS98
Create a For Loop98
Increment a For Loop by a Set Value	100
Create a Do While Loop	102
Create a Do Until Loop	104
Create a Do Loop While Loop	106
8 DECLARING ARRAYS	108
Declare an Array.....	108
Initialize an Array	110
Assign a Value to an Array	112
Access the Value of an Array Element	114
Declare a Multidimensional Array	116
Assign a Value to a Multidimensional Array	118
Access Elements of a Multidimensional Array	120
Sort an Array	122
Search Array Elements	124
Size an Array	126
Create a Dynamic Array	128
Pass an Array to a Subroutine or Function.....	130
Return an Array from a Function	132
Change an Array Value Using ByRef	134
9 DEFINING SUBROUTINES AND FUNCTIONS	136
Define a Subroutine	136
Call a Subroutine	138
Create Parameters for a Subroutine	140
Pass Parameters to a Subroutine	142
Define a Function	144
Call a Function	146
10 UNDERSTANDING DATABASES	148
Understanding Database Design	148
An Introduction to ADO.NET	150
Understanding Data, Tables, and a Database	152

Connect to a Database	154
Configure the Data Source	156
Using the Data Sources Window.....	158
Using SQL Statements	160
Using the DataGridView Control	162
Remove a Column from the Data Grid View	164
Add a Column to the Data Grid View	166
Change the Color of Every Other Row.....	168
Save Changes Made to the Data Grid View	170
Save Changes to a Database Using a Button Control	172
Add a SQL Query to the Data Grid View	174
Using Code to Bind Data to a Combo Box.....	176
Using the ReportViewer Control	178
11 DEBUGGING YOUR APPLICATION	180
Set Breakpoints	180
Using the Watch Window	182
Using a Visualizer	184
12 USING CLASSES	186
Create a Class and Declare an Object	186
Create a Sub Method for a Class	188
Create a Function Method for a Class	190
Create a Private Method	192
Create a Protected Method	194
Create a New() Method.....	196
Call a Method of a Class	198
Pass a Value to a Method of a Class	200
Assign a Value to a Public Property	202
Create a Property Procedure for a Class	204
Get a Value of a Property Procedure	206
Set a Value of a Property Procedure	208
Validate a Property Value	210
Inherit a Class.....	212
Using Overloading	214
Using Multiple Inheritance	216

TABLE OF CONTENTS

13 CREATING COMPONENTS	218
An Introduction to Component Creation	218
Create a Component	220
Create a Windows Forms Control	222
Handle Default Properties	224
Add a Member	226
Add an Event	228
Using Standard Controls	230
Create a Control from Scratch	232
Reference a Library	234
14 CREATING GRAPHICS	236
Add a Picture to a Form	236
Using the Color Dialog Box.....	238
Understanding the Graphics Object.....	240
Create a Brush	242
Create a Pen	244
Draw Bitmaps and Images	246
Draw Simple Primitives.....	248
Draw a Curve	250
Draw Text	252
Create a Path	254
Using Regions	256
Create a Shaped Window	258
15 PROVIDING INPUT AND OUTPUT	260
Using a File Stream	260
Read from a Stream	262
Write to a Stream	263
Watch for File System Changes.....	264
Access File Information	266
Access Directory Information	268
Provide a File Dialog Box	270
Using the PrintDocument Control	272
Using the Printer Dialog Box	274

Using the Page Setup Dialog Box	276
Create a Print Preview	278
Download from a Web Server	280
Make a Connection to a Server	282
Accept Incoming Connections	284
16 PACKAGING YOUR APPLICATION	286
Create a Setup Program	286
Create a Shortcut for Your Application	288
Create an Icon for Your Application	290
Run the Setup Program	292
INDEX	294